

20020719.qrp v02_n621.qrl.20020719

Date: Fri, 19 Jul 2002 19:03:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2621

QRP-L Digest 2621

Topics covered in this issue include:

- 1) [130071] Attendees at Ft Tuthill
by "Bob Hightower" <nk7m@extremezone.com>
- 2) [130072] CQ East coast!
by "Juanjo Pastor" <ec5aca@wanadoo.es>
- 3) [130073] Re: Conjugate matching
by William R Colbert <w5xe@juno.com>
- 4) [130074] RE: Gastronomic oddities & Turkey Fries
by Karl Kanalz <kkanalz@gcecispc.com>
- 5) [130075] NCARC Superfest 2002--Vendors, Clubs and Other Goodies
by "Rod N0RC" <rod@n0rc.us>
- 6) [130076] reproducible conjugate results, PART 99.5
by Nick Kennedy <nkennedy@tcainet.net>
- 7) [130077] Re: Conjugate matching
by "James R. Duffey" <jamesd1@flash.net>
- 8) [130078] Re: Turkey Fries
by "Francis Callahan" <colcal@srv.net>
- 9) [130079] Norcal Paddles
by "William K. Harding" <k4ahk@ix.netcom.com>
- 10) [130080] RE: Stacked Toroids -- 50 Turns 2 Sizes
by Nick Kennedy <nkennedy@tcainet.net>
- 11) [130081] [CONTEST] N2CQ QRP Contest Calendar * July 18-31
by "Ken Newman" <n2cq@dandy.net>
- 12) [130082] NEED 20K VAR RESISTOR
by Wayne Williams <aa5jj@yahoo.com>
- 13) [130083] Re: reproducible conjugate results, PART 99.5 (now even longer)
by "George, W5YR" <w5yr@att.net>
- 14) [130084] FS: Heathkit HD-1418 audio filter
by "NZ8J" <timcook@erinet.com>
- 15) [130085] Re: Is direct conversion fm a contradiction in terms?
by Fran Flynn <fflynn@adelphia.net>
- 16) [130086] RE: [130068] Audio Trouble Shooting
by Brian Kassel <bkassel@mato.com>
- 17) [130087] Re: Conjugate matching
by Bill Coleman <aa4lr@arrl.net>
- 18) [130088] Truffle--WV9N
by Paul Womble <pwomble1@tampabay.rr.com>
- 19) [130089] Re: Conjugate matching

by "Karl F. Larsen" <k5di@zianet.com>
20) [130090] Re: Truffle--WV9N
by Arthur Moe <kb7ww@easystreet.com>
21) [130091] Yaesu FT-1
by "Bob Hightower" <nk7m@extremezone.com>
22) [130092] foxii
by Arthur Moe <kb7ww@easystreet.com>
23) [130093] Re: Conjugate matching
by "Frank Emens" <femens@hiwaay.net>
24) [130094] FOX Logs from last week
by "Trevor Jacobs" <kg6cyn@earthlink.net>
25) [130095] Re: Conjugate matching
by Bill Coleman <aa4lr@arrl.net>
26) [130096] FOXII Think I bagged both tonight!!!
by "Trevor Jacobs" <kg6cyn@earthlink.net>
27) [130097] FOXII mine.....
by Fred Lesnick <flesnick@tbaytel.net>
28) [130098] Conjugate Match
by "Karl F. Larsen" <k5di@zianet.com>
29) [130099] FOX -- Towfer Again! :-)
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
30) [130100] RE: Experiment of reproducible results PART II
by Bill Coleman <aa4lr@arrl.net>
31) [130101] where away, the Fox?
by Lloyd Lachow <llachow@yahoo.com>
32) [130102] RE: Experiment of reproducible results PART II
by Bill Coleman <aa4lr@arrl.net>
33) [130103] RE: Experiment of reproducible results PART II
by Bill Coleman <aa4lr@arrl.net>
34) [130104] Re: Experiment of reproducible results PART II
by Bill Coleman <aa4lr@arrl.net>
35) [130105] Re: Conjugate Match
by Bill Coleman <aa4lr@arrl.net>
36) [130106] Re: Gastronomic oddities (QR0)
by "James R. Duffey" <jamesd1@flash.net>
37) [130107] Re: FD: All or None Rule
by Bill Coleman <aa4lr@arrl.net>
38) [130108] RE: Experiment of reproducible results PART II
by Nick Kennedy <nkennedy@tcainternet.com>
39) [130109] Re: Gastronomic oddities
by Ted Kell <tedkell@ev1.net>
40) [130110] Re: Altoid Tin first usage?
by Ted Kell <tedkell@ev1.net>
41) [130111] Re: Conjugate matching
by Ted Kell <tedkell@ev1.net>
42) [130112] RE: Experiment of reproducible results PART II
by Bill Coleman <aa4lr@arrl.net>
43) [130113] Re: Modulation modes

by adamvaz@palm.net (Adam Vazquez)

44) [130114] FOX -- are we being legal here?
by Bill Coleman <aa4lr@arrl.net>

45) [130115] Re: FOX Logs from last week
by "Trevor Jacobs" <kg6cyn@earthlink.net>

46) [130116] Re: FOX: Nuts!
by Bill Coleman <aa4lr@arrl.net>

47) [130117] One explanation
by Tim Pettibone <k5oi@cox.net>

48) [130118] (Fox) A Good Evening!
by "George, W5YR" <w5yr@att.net>

49) [130119] Fox results unofficial K0FRP
by "Al Dawkins" <alk0frp@attbi.com>

50) [130120] Re: One explanation
by "Rod N0RC" <rod@n0rc.us>

51) [130121] FOR SALE
by <mgoins@usa.net>

52) [130122] Re: Conjugate matching
by "George, W5YR" <w5yr@att.net>

53) [130123] Preliminary Truffle Report
by RLemmel@aol.com

54) [130124] Re: Experiment of reproducible results PART II
by "George, W5YR" <w5yr@att.net>

55) [130125] Re: FOX -- are we being legal here?
by "George, W5YR" <w5yr@att.net>

56) [130126] Re: FOX -- are we being legal here?
by "Brian P. Milesosky" <n5zgt@swcp.com>

57) [130127] N3BJ FOX Audio Clip as recorded in Burbank,CA
by "Trevor Jacobs" <kg6cyn@earthlink.net>

58) [130128] Re: Audio Trouble Shooting
by "Tracy Markham" <tracy@bytemark.com>

59) [130129] [OT] Newsletter Editor Question
by Chuck Adams <k7qo@earthlink.net>

60) [130130] I am impressed
by "Adam" <jabba@w3.to>

61) [130131] Re: I am impressed
by "Trevor Jacobs" <kg6cyn@earthlink.net>

62) [130132] Re: I am impressed
by "Adam" <jabba@w3.to>

63) [130133] Re: HowTO: Drilling Holes in Altoids Tins
by George Gingell <k3tks@u1.abs.net>

64) [130134] Re: FOX -- are we being legal here?
by Paul Valko <w8kc@comcast.net>

65) [130135] Fw: AstroAlert: General HIGH Solar Activity Alert & Aurora Watch
by Wayne Rogers <w5kdj@juno.com>

66) [130136] QQ article (OHR WM-1)
by "Ingo Meyer, DK3RED" <dk3red@t-online.de>

67) [130137] Re: Ham shops in the Fort Worth area

by "Steve Yates - AA5TB" <aa5tb@arrl.net>
68) [130138] Re: FD: All or None Rule
by W2AGN <w2agn@w2agn.net>
69) [130139] Re: Conjugate Match
by W2AGN <w2agn@w2agn.net>
70) [130140] Re: Gastronomic oddities
by Tim ORourke <TORourke@kaiserft.com>
71) [130141] Re: FOX -- are we being legal here?
by George Fremin III - K5TR <geoiiii@kkn.net>
72) [130142] Re: Audio Trouble Shooting
by David Hinerman <WD8CIV@worldnet.att.net>
73) [130143] Re: FOX -- are we being legal here?
by Bill Coleman <aa4lr@arrl.net>
74) [130144] Fwd: [GQRP] Your Story?
by "Ingo Meyer, DK3RED" <dk3red@t-online.de>
75) [130145] Re: FOX -- are we being legal here?
by Bill Coleman <aa4lr@arrl.net>
76) [130146] Re: QRPers (Some) Are Odd-balls
by George Franklin <w0av@juno.com>
77) [130147] Regulations
by "Frank Emens" <femens@hiwaay.net>
78) [130148] Re: FOX -- are we being legal here?
by Bill Coleman <aa4lr@arrl.net>
79) [130149] Re: FOX -- are we being legal here?
by David Hinerman <WD8CIV@worldnet.att.net>
80) [130150] N3BJ Fox Summary
by "Alan Fryer" <N3BJ@hotmail.com>
81) [130151] Re: Regulations
by David Hinerman <WD8CIV@worldnet.att.net>
82) [130152] Re: Audio Trouble Shooting
by "Joe W2KJ" <w2kj@earthlink.net>
83) [130153] FOX are we being legal here ?
by "Walt Amos" <k8cv@netzero.net>
84) [130154] NCARC Superfest 2002--Door Prizes
by "Rod N0RC" <rod@n0rc.us>
85) [130155] Re: QRPers (Some) Are Odd-balls
by W2AGN <w2agn@w2agn.net>
86) [130156] Re: FOX -- are we being legal here?
by Hank Kohl K8DD <k8dd@arrl.net>
87) [130157] Operating from Colorado Trail this weekend
by Gary Slagel <gdslagel@yahoo.com>
88) [130158] Re: QQ article (OHR WM-1) TNX
by "Ingo Meyer, DK3RED" <dk3red@t-online.de>
89) [130159] Re: Experiment of reproducible results PART II
by "Mullin, Edward J." <mulline@tycoelectronics.com>
90) [130160] Re: Regulations
by Timothy-Allen Albertson-KG6IRH <kg6irh@pacbell.net>
91) [130161] Re: Oscope questions from a true beginner?

by "Brad Hernlem" <alihernlem@hotmail.com>
92) [130162] Re: QRPers (Some) Are Odd-balls
by George Franklin <w0av@juno.com>
93) [130163] Offence under US code Title 47, Sec 227(b) (1) (C)
by W2AGN <w2agn@w2agn.net>
94) [130164] RE: Offence under US code Title 47, Sec 227(b) (1) (C)
by "Mike Mellinger WA0SXV" <wa0sxv@mellinger.com>
95) [130165] RE: Offence - OOPS!
by W2AGN <w2agn@w2agn.net>
96) [130166] RE: Offence under US code Title 47, Sec 227(b) (1) (C)
by Mark Schoonover <schoon@amgt.com>
97) [130167] Re: Experiment of reproducible results PART II
by "George, W5YR" <w5yr@att.net>
98) [130168] RE: Experiment of reproducible results PART II
by "Karl F. Larsen" <k5di@zianet.com>
99) [130169] My final on Conjugate
by "Karl F. Larsen" <k5di@zianet.com>
100) [130170] RE: Experiment of reproducible results PART II
by Bill Coleman <aa4lr@arrl.net>
101) [130171] Re: Offence under US code Title 47, Sec 227(b) (1) (C)
by "Karl F. Larsen" <k5di@zianet.com>
102) [130172] interesting product for ft-817 users
by Gary Lee <kb9zuv@arrl.net>
103) [130173] Re: My final on Conjugate
by W2AGN <w2agn@w2agn.net>
104) [130174] Re: interesting product for ft-817 users
by "Ian Wilson" <ianmwilson@earthlink.net>
105) [130175] Re: My final on Conjugate
by "George, W5YR" <w5yr@att.net>
106) [130176] Mistakes
by W2AGN <w2agn@w2agn.net>
107) [130177] Re: reproducible conjugate results, PART 99.5 (now even longer)
by "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
108) [130178] Re: My final on Conjugate
by "Ian Wilson" <ianmwilson@earthlink.net>
109) [130179] Re: reproducible conjugate results, PART 99.5 (now even longer)
by W2AGN <w2agn@w2agn.net>
110) [130180] Re: reproducible conjugate results
by "Bob Hightower" <nk7m@extremezone.com>
111) [130181] Fw: [azqrp] Forest open Saturday
by "Bob Hightower" <nk7m@extremezone.com>
112) [130182] Transistors in the junk box
by ZarubaJr@aol.com
113) [130183] Re: reproducible conjugate results, PART 99.5 (now even longer)
by "George, W5YR" <w5yr@att.net>
114) [130184] Re: reproducible conjugate results
by W2AGN <w2agn@w2agn.net>
115) [130185] Junk box suggestions

by Jim Larsen - AL7FS <AL7FS@arrl.net>
116) [130186] RE: Transistors in the junk box
by "Mullin, Edward J." <mulline@tycoelectronics.com>
117) [130187] Re: Transistors in the junk box
by Mighty Mik <mightymik2@attbi.com>
118) [130188] Re: reproducible conjugate results
by David Hinerman <WD8CIV@worldnet.att.net>
119) [130189] WTB FT-7
by Tim ORourke <TORourke@kaiserft.com>
120) [130190] Re: Misteaks
by Philip L Carter <pcarter@gcfn.org>
121) [130191] RE: Transistors in the junk box
by David Hinerman <WD8CIV@worldnet.att.net>
122) [130192] FS - PSK Transceivers
by "Steve Baker" <k8pz@earthlink.net>
123) [130193] Re: Regulations
by "Charles Mabbott" <aa8vs@msn.com>
124) [130194] Re: Transistors in the junk box
by "w8diz" <w8diz@fpqrp.com>
125) [130195] var.caps
by "carl seyersdahl" <carlseye@tampabay.rr.com>
126) [130196] Re: reproducible conjugate results
by "Karl F. Larsen" <k5di@zianet.com>
127) [130197] Re: FS - PSK Transceivers
by "Steve Baker" <k8pz@earthlink.net>
128) [130198] Re: Transistors in the junk box
by "Bob Tellefsen" <n6wg@earthlink.net>
129) [130199] USS Kidd on the air
by n5ib@juno.com
130) [130200] Re: N3BJ FOX Audio Clip as recorded in Burbank,CA
by Lloyd Lachow <llachow@yahoo.com>
131) [130201] Re: Stacked Toroids -- 50 Turns 2 Sizes
by "Bob Tellefsen" <n6wg@earthlink.net>
132) [130202] Re: FOX are we being legal here ?
by Lloyd Lachow <llachow@yahoo.com>
133) [130203] Re: interesting product for ft-817 users
by "Karl F. Larsen" <k5di@zianet.com>
134) [130204] Re: N3BJ FOX Audio Clip as recorded in Burbank,CA
by "John J. McDonough" <wb8rcr@arrl.net>
135) [130205] Re: Offence under US code Title 47, Sec 227(b) (1) (C)
by Thom LaCosta <baltimoremd@baltimoremd.com>
136) [130206] Re: Junk box suggestions
by "Brian" <brian@iquest.net>
137) [130207] Re: Transistors in the junk box
by "Leon Heller" <leon_heller@hotmail.com>
138) [130208] Re: Offence under US code Title 47, Sec 227(b) (1) (C)
by W2AGN <w2agn@w2agn.net>
139) [130209] Re: My final on Conjugate

by Bill Coleman <aa4lr@arrl.net>
140) [130210] Re: reproducible conjugate results
by Jimmy Lee <jrlaudio@bellsouth.net>

Date: Thu, 18 Jul 2002 16:06:57 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [130071] Attendees at Ft Tuthill
Message-ID: <00cb01c22eaf\$d14f8800\$8c17bdcc@bobscomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Following is the list of pre-registrants for this year's doin's at Ft
Tuthill:

Jim Duffey KK6MC/5
Jerry Haigwood W5JH
Jay Miller WA5WHN
Judy Miller WB5LYJ
Tom Maloney WA5MBD
Floyd Smithberg NQ7X
Chuck Adams K7Q0
Sam Imai KF7ML
Tony Fishpool G4WIF
Ruth Fishpool
Graham Firth G3MFJ
Pat Firth
Jeff Johnson KJ7L0
Jamie Johnson KC7MQY
Haley Johnson
Jennifer Kinley
Valerie Kinley
Tim Pettibone K5OI
Karl Larsen K5DI
Karl Hess WF5A
Gary Bonebrake W5BI
Greg Farkas AK7Y
Betty Farkas
Steve Smith WB6TNL
Jack Reed WA7LNW
Paul Harden NA5N
Jan Medley N0QT
Jim Cates WA6GER
Doug Hendricks KI6DS

Joanne Hendricks
Mark Gustoff W07T
Jim Varner AE6N
Dave Benson K1SWL
Ken Canfield AC6NG
Ed Takatsu KC6EAS
Doug Hauff KE6RIE
Tom Maloney WA5MBD
Gary Evans AA6R
Mike Curry KD7RYS
Phil Brittain W6QX
Ina Brittain KF6WIO
Dan Tayloe N7VE
John Nystedt K7JPN
John Stevens K5JS
Dave Yarnes W7AQK
Jack Reed WA7LNW
Bob Kimbrell W7KU
Jim Ritorto WB6NJA

If your name isn't on the list, and you are coming, please let me know ASAP.
Jerry Parker is doing the badges, and we don't want to jam him up, so the
cutoff is midnight tonight (7/17).

Bob NK7M

Date: Fri, 19 Jul 2002 01:27:54 +0200
From: "Juanjo Pastor" <ec5aca@wanadoo.es>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130072] CQ East coast!
Message-ID: <000d01c22eb2\$de941be0\$a33e243e@fer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hello everybody,

I will be on 14.060 +-QRM at 21 or 22 UTC this Friday from the
radioclub in Llíria with a 3 element Yagi-Uda beam antenna but using
my Ten Tec 1320 and my own call. Previous outings have yielded QSOs
with NYC, NJ, MA and GA, so QRPers of the Atlantic States, a QSO would
be possible... Will tell you all the stations worked next Monday...

73, 72 de Juanjo, EA5CHQ-EC5ACA. EA-QRP #104, G-QRP #9742,
QRP-L #1662.

Juanjo Pastor
C/San Roque, 4-1=BA
46460 Silla
SPAIN

e-mail: ea5chq@wanadoo.es
Tel.: +034 96 120 17 67
Movil: 651 35 35 11

Date: Thu, 18 Jul 2002 17:25:50 -0600
From: William R Colbert <w5xe@juno.com>
To: w5yr@att.net, qrp-l@lehigh.edu
Subject: [130073] Re: Conjugate matching
Message-ID: <20020718.172551.-432863.4.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thank you George and other contributors to your excellent discussion. I enjoyed it and even learned some as well. Nothing like an excellent teacher - sort of reminds me of the days when such discussions were done on 75 meters after chores and dinner were done. Most of us learned a lot that way.

73 and thanks again.

Ray
"The more you read about politics, you got to admit that each party is worse than the other. The one that's out always looks the best." -Will Rogers
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M
NARTE-NCT2R QRP-ARCI 5784, El Paso, (FAR WEST) TEXAS

Date: Thu, 18 Jul 2002 18:17:35 -0500
From: Karl Kanalz <kkanalz@gcecis.com>
To: "'dafouchey@comcast.net'" <dafouchey@comcast.net>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130074] RE: Gastronomic oddities & Turkey Fries
Message-ID: <01C22E89.38CC3720@KKANALZ>

I guess, Dave, you'll just have to make the trek from the frozen tundra of Michigan to the balmy south of Fort Smith for next year's "ArkieCon".

Doncha' dare miss it!

Karl K - W8TIF
McKinney, Texas
(a very avid "ArkieCon'er" !!)

-----Original Message-----

From: Dave Fouchey [SMTP:dafouchey@comcast.net]
Sent: Thursday, July 18, 2002 4:12 PM
To: Low Power Amateur Radio Discussion
Subject: Gastronomic oddities

I'm almost afraid to ask Hubert...;-)

Also What the heck are "Turkey Fries" guys? Deep Fried Turkeys I know of but Turkey Fries???

And as for Haggis, I just can't work myself up to eating a sausage made with lungs..scots ancestors of no....

73's and Bon Apetite

Dave
WA4EMR
Sterling Heights, MI

Date: Thu, 18 Jul 2002 17:43:34 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: "qrp-l" <qrp-l@lehigh.edu>, <ncarc@mailman.qth.net>, <elecraft@mailman.qth.net>, <cqclist@yahooogroups.com>
Subject: [130075] NCARC Superfest 2002--Vendors, Clubs and Other Goodies
Message-ID: <000b01c22eb4\$ef713540\$6601a8c0@BIGDOG>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

This year like always we will have another fine lineup of folks in the Swap and Sale area, too many to mention here.

For a more complete list of the vendors, visit the Superfest website at:

<http://www.radioactivehams.com/superfest/vendors.html>

Here are just a few of my personal favorites....

Arrow Antenna--Simply the best! I have their 146/440 J-pole in my garage attic to access local repeaters, It works great!

Miley's Radio: radios, antennas, test equipment and more. I got a good deal on my MFJ-259B a few years ago.

Radio Shack: Fest-special products & prices; the local managers are hams and they offer some good stuff! Last year I got a nifty SWL radio at a nice price.

Radio Paul: Antennas, Antenna Wire, Ladder line....Last year I bought some nifty ladder line from Paul. This year I'm going back for some antenna wire. It is getting time to redo my attic antenna.

I don't mean to exclude any of our vendors, they all have great stuff. The few I mentioned are ones I have recent or repeated experience with. Each year I try to visit several new and different vendors, and I always find some needed/or useful item(s). Why not stop by Superfest, stroll around and see what you can find? Betcha find something. ;-)

And don't forget the individual ham tables. I always see some great/classic stuff. Last year I was tempted to buy a Knight Kit Star-Roader SWL RX. I built one in High School many years ago, and it was that kit that got me started in Ham Radio.

Clubs:

YLRL, CQC, Colorado Radio Collectors and of course NCARC. Stop by, check them out, maybe join. Or, re-up your existing membership. I always see a few old friends chatting around these tables, you never know who you may run into.

Other Goodies

What's a hamfest, with out a "ham-feast", FOOD! This year in addition to standard fair like Hot Dogs, our kitchen manager has

made arrangements to offer tacos from Qudoa(R) Mexican Grill,
Loveland CO!! (<http://www.qdoba.com/>) And, because Qudoa's has
donated the fixin's, we can offer them at a special low
Superfest price! Supplies are limited so come early and don't
miss this yummy treat.

Tomorrow, I'll tell about the prizes. There are more than what you
see currently on the website. All those vendors I told you
about...they make some mighty fine stuff available to us for door
prizes!

Full Superfest details at: <http://www.radioactivehams.com/superfest/>

73, Rod N0RC

Date: Fri, 19 Jul 2002 19:07:53 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130076] reproducible conjugate results, PART 99.5
Message-ID: <01C22F57.960D27E0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

What fun!

Here's my take on it ...

The tuner transforms the impedance at its input to 50 ohms. It doesn't
conjugately match anything to the transmitter (except perhaps in a rare
special case). It doesn't care what the transmitter's internal impedance
is, or even if there is a transmitter.

72--Nick, WA5BDU

Date: Thu, 18 Jul 2002 18:14:19 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-l@lehigh.edu>, <k5di@zianet.com>

Subject: [130077] Re: Conjugate matching
Message-ID: <B95CB5FB.1950A%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Karl - Boy I would like to see and hear the explanation of conjugate matching that you looked up.

I suggest that you get a copy of Reflections II by Maxwell and read Chapter 7, or dig up your August 1976 copy of QST and read the article "My Antenna Tuner Really Does Tune My Antenna" also by Maxwell.

A conjugate match has everything to do with feedlines and antennas. I was going to give a short explanation, but if George can't convince you I am not sure that I can.

Read the Maxwell article. If you still don't believe in conjugate matching I'll take a crack at explaining it. - Dr. Megacycle KK6MC/5

--

James R. Duffey KK6MC/5
Cedar Crest, NM DM65

Date: Thu, 18 Jul 2002 18:16:37 -0600
From: "Francis Callahan" <colcal@srv.net>
To: <kkanalz@gcecis.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130078] Re: Turkey Fries
Message-ID: <001b01c22eb9\$8d090040\$accb1341@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Having lived just outside of Edinburgh Scotland in a place called Joppa for 3 years in the early 60's I will take all the haggis and the worlds best fish and chips I can get my hands on. 72 Cal KF7ET

----- Original Message -----

From: "Karl Kanalz" <kkanalz@gcecis.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, July 18, 2002 1:47 PM
Subject: Re: Turkey Fries

> In a fit of revulsion (and perhaps a little gagging) you wrote:

>
> -----Original Message-----
> From: Tony Fishpool [SMTP:tony@g4wif.fsnet.co.uk]
> Sent: Thursday, July 18, 2002 2:36 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Altoid Tin first usage?
>
> John,
> Having been conned into trying these by Doug Hendricks I rather feel that
> the U.S. needs to impose strict export controls on these items :-)
>
> 72/3
> Tony - G4WIF
>
>
> Aw come on, Tony! You know you liked the taste of those
> "turkey fries" !! Anybody who can eat a "Haggis" can't ignore
> the superior flavor of "Turkey Fries" !!
>
> If the U.S. Department of Commerce is to restrict exportation
> of "Turkey Fries", then they must at least open our borders so
> you can return to ArkieCon next year so you can keep up "your
> end" of the Turkey Fries consumption (along with some deep-
> fried pickles!) !!
>
> Karl K - W8TIF
> (ex-G5AGX)
>

Date: Thu, 18 Jul 2002 20:20:03 -0400
From: "William K. Harding" <k4ahk@ix.netcom.com>
To: "QRP-L Mail" <qrp-l@lehigh.edu>
Subject: [130079] Norcal Paddles
Message-ID: <E17VLU3-0005Iq-00@tisch.mail.mindspring.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

How wide is the base of the Norcal paddles. Is the current production
paddle the same width?

Bill - K4AHK
Burke, VA FM18

Date: Fri, 19 Jul 2002 19:32:52 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [130080] RE: Stacked Toroids -- 50 Turns 2 Sizes
Message-ID: <01C22F5B.14BF3580.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Man, those dulcimer players are so compulsive!

The ferrites were close to the 2:1 ratio, maybe even closer than the iron powder.

Chuck opened an new line of observation with his bunching up of windings on iron making a big difference. I'm betting it's not so pronounced with ferrite for this reason: With iron, your permeability may be 4 to 10 or so. With ferrite, perhaps 100 to 1000. So when you bunch up the windings on iron, the flux might just decide to take a shortcut thru air instead of going all the way around the racetrack. The permeability of air (1) is not that much smaller than that of the core. But with ferrite, the flux "wants" (sorry) to stay in the core because it's so much easier.

Speaking of this kind of stuff, I recently got into a discussion on ferrite rods (for RFI suppression) and was doing some research on the inductance you get with a coil wound on one. Turns out it's a lot more complicated than with a toroid, where essentially all of the flux stays in the core.

With the rod, a good amount of the path is going to be through air, and that turns out to be a limiting factor. Meaning no matter how much you increased the permeability of the rod material, the inductance didn't increase appreciably. I read that the "effective" permeability of such a coil was always about 10 to 20. So I wound one and measured it with and without the rod inserted. It turned out to be an increase of almost exactly 10 with the rod. I guess the moral is that if you're winding a coil on a high permeability ferrite stick, just use the handbook formula for an air wound coil and multiply by about 15 or so to get in the ballpark.

And finally, Chuck and I were discussing the effect of strays when using the AADE meter we all know and love. When I use test leads for inductance measurements, I of course connect them together first and zero the meter.

But what about when I hook a component directly to the posts with (more or less) zero lead length? I felt that there's going to be some strays in any case--first, I do have a little bit of lead length, the component doesn't fit exactly between the posts; and second, the posts themselves and internal wiring from them to the circuit will have some L. So I connected

a wire between the two posts first (measured about 0.345 uH) and zeroed it out. When dealing with 1 to 2 uH, it made a big difference in our experiment. Is that what the rest of you guys are doing?

Enough for now. Keep experimenting and musing ...

72--Nick, WA5BDU

-----Original Message-----

From: Chuck Carpenter [SMTP:w5usj@9plus.net]
Sent: Thursday, July 18, 2002 1:02 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Stacked Toroids -- 50 Turns 2 Sizes

At 10:09 AM 07/18/2002 -0700, Bob Tellefsen wrote:

>Very interesting, Chuck.
>Have you been able to test the idea with ferrite toroids
>to see if they behave in a similar way?
>73, Bob N6WG
>

Date: Thu, 18 Jul 2002 20:40:28 -0400
From: "Ken Newman" <n2cq@dandy.net>
To: "W3BG" <W3BG@arrl.net>, "N4SO" <N4SO@Juno.com>,
"QRP-L Reflector" <QRP-L@lehigh.edu>,
Subject: [130081] [CONTEST] N2CQ QRP Contest Calendar * July 18-31
Message-ID: <002201c22ebc\$e68e25c0\$7a881c42@18.95.182.twsn1.md.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

~~~~~  
N2CQ QRP CONTEST CALENDAR

July 18-31, 2002  
~~~~~

Summer Fox Hunts - 20 Meters CW QRP - Friday 0200z - July & August

(Thursday Evenings US Local Time)

Details: <http://www.cqc.org/fox/index.htm>

=====

Truffle Hunt 30 minutes before the Fox Hunt

Details: <http://fpqrp.com/struffle.html>

~~~~~

Museum Ship Weekend Event

July 20 - 21

Details: <http://www.qsl.net/k1usn/event.html>

~~~~~

AGCW-DL QRP Summer Contest (CW) ... QRP Contest!

Jul 20 - 1500z to Jul 21 - 1500z

Rules: <http://www.agcw.de/>

"More QRP Summer Fun"

~~~~~

Georgia QSO Party (CW/SSB) ... QRP Category

Jul 20 - 1800z to Jul 21 - 0359z

Jul 21 - 1400z to Jul 21 - 2359z

Rules: <http://gqp.contesting.com/Rules.htm>

"Work GA Counties. Excellent Awards"

~~~~~

North American QSO Party (RTTY)

Jul 20 - 1800Z to Jul 21 - 0600Z

Rules: <http://www.ncjweb.com/naqprules.php>

"FYI.. 100 watt RTTY operation"

~~~~~  
CQ WW VHF Contest (All, 6 & 2 Meters) ... QRP (25W) Category

Jul 20 - 1800z to Jul 21 - 2100z

Rules: <http://www.cq-amateur-radio.com/VHFRU102.pdf>

"Maidenhead Grids for Awards"

~~~~~

RSGB Low Power Field Day (CW) ...QRP Contest!

Jul 21 - 0900z to 1200z (80 M)

Jul 21 - 1300z to 1600z (40 M)

Rules: <http://www.g4tsh.demon.co.uk/HFCC/>

"Outdoor Fun for the Serious QRPer"

~~~~~

CQC Great Colorado Gold Rush (20 Meters CW) ... QRP Contest!

Jul 21 - 2000z to 2200z

Rules: <http://www.cqc.org/contests/gold2002.htm>

"Two fast hours of heavy hitting"

~~~~~

RUSSIAN RTTY WW CONTEST

Jul 27 - 0000z to Jul 28 - 2400z

Rules: <http://www.sk3bg.se/contest/russrtty.htm>

"FYI.. QRO RTTY. All bands"

~~~~~

Venezuelan Independence Day Contest (CW)

Jul 27 - 0000Z to Jul 28 - 2400Z

Rules: <http://www.sk3bg.se/contest/yvdx.htm>

"Work YV and anyone else"

~~~~~  
Islands On The Air Contest (CW/SSB)

Jul 27 - 1200z to Jul 28 1200z

Rules: <http://www.g4tsh.demon.co.uk/HFCC>

"IOTA DXpeditions Encouraged"

~~~~~  
Flight of the Bumblebees (CW) ... QRP Contest!

Jul 28 - 1700z to 2100z

Rules: [http://www.natworld.com/ars/pages/bumblebees/bb\\_rules.html](http://www.natworld.com/ars/pages/bumblebees/bb_rules.html)

"Most outrageous venture for QRP Portable"

~~~~~  
Thanks to SM3CER, WA7BNM, ARRL and others
for assistance in compiling this calendar.

Please foreward the contest info you sponsor to N2CQ@ARRL.NET and
we will post it and give it more publicity.
Anyone may use this "QRP Contest Calendar" for your website, newsletter,
e-mail list or other media as you choose.
(Include a credit to the source of this material of course.)

**** QRP Contest Calendar ****
<http://www.njqrp.org/data/contesting.html>
<http://www.n3epa.org/Pages/Contest/contest.htm>
<http://www.qsl.net/cqrp/contests.html>

72 de
Ken Newman - N2CQ
N2CQ@ARRL.NET

Date: Thu, 18 Jul 2002 17:59:24 -0700 (PDT)
From: Wayne Williams <aa5jj@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [130082] NEED 20K VAR RESISTOR
Message-ID: <20020719005924.30376.qmail@web10506.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hello I need a 20K var resistor it is the 3 legged kind and is small mounts on the PC board it is used in my antenna tuner on the circuit board that feeds the meter to show SWR to the meter, I am not sure the wattage but it is porcelain and the porcelain is about 1/16 inch thick, I know this is not much of a description but it is the best I can do hihi. If you have anything close to this send me your phone number and we can talk about this.

Thanks Wayne AA5JJ

Do You Yahoo!?
Yahoo! Autos - Get free new car price quotes
<http://autos.yahoo.com>

Date: Thu, 18 Jul 2002 20:05:35 -0500
From: "George, W5YR" <w5yr@att.net>
To: nkennedy@tcainternet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [130083] Re: reproducible conjugate results, PART 99.5 (now even longer)
Message-ID: <3D3765DF.C5665100@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hooray! You win your own personal private 50 ohm resistor used to keep transmitters "happy!" But, we still have to be a little careful in the terminology.

The impedance present at the tuner *output* terminals (I think this is what you meant by the "impedance at its input") where it connects to the feedline from the antenna looking into the tuner is the complex conjugate of the feedline input impedance which in turn is the feedline-transformed impedance at the antenna connection. This condition permits maximum power transfer at that junction.

The input impedance of the feedline is transformed within the tuner such that at the input terminals of the tuner, at what Maxwell terms "the match point," the impedance presented consists of the desired 50 ohms real part and exactly the reactance required to cancel the feedline input reactance. It is for this reason that the reflected wave from the antenna is finally fully reflected and sent on its way back to the antenna as a component of the forward power on the feedline.

The presence of this cancelling reactance associated with the opposite-sign reactance from the feedline results in the impedance present at the tuner transmitter-input terminals being the desired $50+j0$ ohms. Walt Maxwell, obviously, does a much better job of describing all this - see his Section 7.4 in the original "Reflections" which may or may not be the same in the new edition.

Nick has a very excellent point in his last sentence - two of them in fact!

First, nothing about the operation of the tuner, line and antenna has anything to do with the actual internal or output impedance of the transmitter. The tuner does not know or care what it is, and as Nick says, the tuner does exactly the same job whether or not a transmitter is even connected. Very astute observation! But that is Nick for you! <:}

Even more surprising, perhaps, is that the transmitter designer probably knows little if any more on that subject than does the tuner. Amplifier designs are made and amplifiers are used without anyone ever giving much if any consideration to this mysterious "output impedance."

Warren Bruene W5OLY and Walt Maxwell W2DU have tossed barbs at each other for nearly 10 years trying to settle this issue. At first Walt felt that the generalized network theory due to Everitt that states the conjugate match theorem required that the tuner also provide a conjugate match to the transmitter output impedance. But this proved to be a problem. First, no one could really state with any conviction what this impedance was for any given amplifier. Second, almost any tuner will work with almost any amplifier - so what does the tuner know that the designer does not? Third, since we use 50 ohm coax from the tuner to the transmitter and adjust the tuner for 1:1 SWR in that line, that argues that the impedance at the transmitter end must also be $50+j0$ and thereby, if a conjugate match exists at that point, then the impedance seen looking into the output must be $50-j0$. All that is highly unlikely to ever occur, so clearly the tuner is NOT conjugately matching the transmitter to the feedline/antenna system, which you occasionally hear or read people erroneously say.

What the tuner is doing bottom line is simply producing the optimum load resistance for the transmitter required for it to meet specs on power output, efficiency, distortion, etc. This value of resistance may or may

not have any relationship to the actual output impedance of the transmitter, whatever that is.

Finally, talking about Walt Maxwell, many have questioned why his book was taken off the market by ARRL and his material removed from subsequent Handbook editions. Some have suspected politics, but as the Editor pointed out in a public email, the material was pulled simply because of the initial insistence upon conjugate matching of the transmitter. Since such could not be proved to exist and as a practical matter was a concept unused by either amplifier designers or operators, he felt that the material was inappropriate.

Walt was a little off-base on that one aspect of conjugate matching, but he is "right on" with the rest of the system.

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Nick Kennedy wrote:

>
> What fun!
>
> Here's my take on it ...
>
> The tuner transforms the impedance at its input to 50 ohms. It doesn't
> conjugately match anything to the transmitter (except perhaps in a rare
> special case). It doesn't care what the transmitter's internal impedance
> is, or even if there is a transmitter.

Date: Thu, 18 Jul 2002 21:18:06 -0400
From: "NZ8J" <timcook@erinet.com>
To: <qrp-l@lehigh.edu>
Subject: [130084] FS: Heathkit HD-1418 audio filter
Message-ID: <002f01c22ec2\$2382c120\$6122fea9@erinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Has separate high pass, low pass, notch/peak controls. works well and =
looks good, about a 7 or 8 case has some scratches, front panel exc.
will ship in the lower 48 for \$35
thanks=20
Tim

NZ8J

Date: Thu, 18 Jul 2002 21:24:52 -0400
From: Fran Flynn <fflynn@adelphia.net>
To: qrp-l Discussion <qrp-l@lehigh.edu>
Subject: [130085] Re: Is direct conversion fm a contradiction in terms?
Message-ID: <3D376A64.1614ED3B@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I was thinking more in terms of using something that wasn't really designed to demodulate FM, such as a detector designed for AM. In your case, obviously the system was designed for FM. Very interesting information, I stand corrected.

73, Fran

"

I beg to differ: the slope detection method is probably the BEST FM detector circuit you can build! You just have to build a decent slope to detect with.=20

I used to align those slope detectors while working on an FDM microwave system years ago. We regularly achieved linearity of 0.1% and group delay flatness of 10 nanoseconds or less. You can make these things highly linear across a very wide frequency range. The proof is that our microwave links frequently exhibited Noise Power Ratios in the mid 60 dB range for a 600 channel system (measured at three standard slots below 2500 kHz).

These sorts of detectors are perfect for use in multiplexed wide band =46M applications, such as VHF FM stereo broadcasts. =20

Of course, for narrow band FM applications, things are slightly different. However, I'd still consider it carefully before discarding an idea like that.

73,

Date: Thu, 18 Jul 2002 18:20:35 -0700
From: Brian Kassel <bkassel@mato.com>
To: QRP-L <QRP-L@lehigh.edu>, tracy@bytemark.com

Subject: [130086] RE: [130068] Audio Trouble Shooting
Message-ID: <3D376962.B529B82D@mato.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tracy:

This might be a silly resolution to your problem, but then again...
The LM-386 chip from version -0 through -2 were made to run on 9 volts.
not 12 as your diagram shows. If you used a -3 version, 12 volts would
be acceptable. 12 volts will almost certainly cause the chip to fail. I
had a very similar hair pulling experience here, until I realized that I
was using chips that were not -3 types. Hopefully, you used a socket in
your design ;).

Brian K7RE
Spearfish SD
In the Black Hills

Date: Thu, 18 Jul 2002 21:30:18 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130087] Re: Conjugate matching
Message-ID: <20020719013150.UUGQ9213.imf16bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/18/02 4:44 PM, Karl F. Larsen at k5di@zianet.com wrote:

> The title says it all. Conjugate is a term from mathematics used
> with imaginary numbers which says that $ix + i(-x) = 0$. Or ix is the
> Conjugate of $i(-x)$.

Yes. And a Conjugate match is a condition where at every point on the
feedline from the transmatch to the antenna terminals, the impedance is
always some value of $R + jX$ on one side, and $R - jX$ on the other (with
the actual values of R and X varying all along the feedline). This means
that every point on the feedline satisfies the condition of $R + j0$, or
just simply the impedance R .

Having a pure resistive impedance with no imaginary part is a condition
known as "resonance." Look it up.

> The radio is a voltage source in series with a

>load resistor that's 50 ohms for transistor radios. If you match the
>radio it will appear to have a 50 ohm load. The tuner is an L C device
>that converts the feed point impedance $R(in) + ix$ to 50 ohms. Nothing
>more or less than this.

It also brings the antenna SYSTEM to resonance. Read Maxwell.

> Conjugate loading has NOTHING to do with the Feed Line or the
>Antenna.

It has EVERYTHING to do with the feedline and antenna, since they are the
antenna system. The feedline and antenna determine exactly what impedance
must be matched to 50 ohms.

>My good friend George explained to me that I will rue the day I
>claim no knowledge of conjugate matching. So I found out and find I have
>not been missing a thing...:-)

Conjugate matching is key to understanding the role of the transmatch,
and the relative efficiencies therein.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 21:40:02 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: FP List <fpqrp-1@mpna.com>, QRP-L <qrp-1@lehigh.edu>
Subject: [130088] Truffle--WV9N
Message-ID: <3D376DF2.52C80ED3@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Found Randy at 14.062 listening up about 1.

Nice signal here in Florida.

Now for the foxii...

73
Paul K4FB

Date: Thu, 18 Jul 2002 19:49:18 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "James R. Duffey" <jamesd1@flash.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [130089] Re: Conjugate matching
Message-ID: <Pine.LNX.4.44.0207181939460.3933-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This guy Maxwell has both you James and George convinced that a common antenna tuner which is usually 2 variable caps and an inductor tapped will tune not only the impedance of the feedline from $x + jy$ to a simple $x = 50$ ohms will ALSO tune the antenna somehow.

I'm sorry. I don't have a copy of anything Maxwell has written. I'm an EXPERT with Maxwell's Equations since I taught that for many years. I'm sure that was another Maxwell of 1850 fame.

So if someone could point me to a way to get his papers I will do it. The 1996 ARRL Handbook does explain in detail conjugate match in a coupling circuit and in an antenna tuner. In the later it talks about how a tuner cancels out the reactance of the load. Says nothing about changing the feedline or the antenna.

About time for the Fox Hunt.

On Thu, 18 Jul 2002, James R. Duffey wrote:

> Karl - Boy I would like to see and hear the explanation of conjugate
> matching that you looked up.
>
> I suggest that you get a copy of Reflections II by Maxwell and read Chapter
> 7, or dig up your August 1976 copy of QST and read the article "My Antenna
> Tuner Really Does Tune My Antenna" also by Maxwell.
>
> A conjugate match has everything to do with feedlines and antennas.
> I was going to give a short explanation, but if George can't convince you I
> am not sure that I can.
>
> Read the Maxwell article. If you still don't believe in conjugate matching
> I'll take a crack at explaining it. - Dr. Megacycle KK6MC/5
>

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Fri, 19 Jul 2002 01:47:09 +0000
From: Arthur Moe <kb7ww@easystreet.com>
To: pwomble1@tampabay.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [130090] Re: Truffle--WV9N
Message-ID: <3D376F9D.65521760@easystreet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yes he has a good sig on the left coast also.

Art
KB7WW

Paul Womble wrote:
>
> Found Randy at 14.062 listening up about 1.
>
> Nice signal here in Florida.
>
> Now for the foxii...
>
> 73
> Paul K4FB

Date: Thu, 18 Jul 2002 18:48:57 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [130091] Yaesu FT-1
Message-ID: <004901c22ec6\$72f29ce0\$0a4998d0@bobscomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone got any idea what a Yaesu FT-1, supposedly in 'like new' condition might be worth? This rig has all the CW filters in it, and was only used for

CW by an SK (call unknown), and her husband wants to sell it. There is also an external speaker with it.

Any info would be appreciated.

Bob NK7M

Date: Fri, 19 Jul 2002 02:22:08 +0000
From: Arthur Moe <kb7ww@easystreet.com>
To: qrp <qrp-l@lehigh.edu>
Subject: [130092] foxii
Message-ID: <3D3777D0.6002A9F9@easystreet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Both have been taken, Alan on .055 and Al on .061

Art
KB7WW

Date: Thu, 18 Jul 2002 21:27:40 -0500
From: "Frank Emens" <femens@hiwaay.net>
To: k5di@zianet.com
Cc: qrp-l@lehigh.edu
Subject: [130093] Re: Conjugate matching
Message-ID: <3D3732CC.32017.2411683@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Karl, to see what's being said here, you need to look at the "antenna" as a system consisting of the antenna and its feedline. The nature of the antenna and the length and characteristics of the feedline determine the impedance seen at the transmitter end of the feedline.. The 'tuner' achieves a conjugate match with the feedline/antenna system, presenting the transmitter with the 50 ohms non-reactive load the designer says the transmitter wants to see.

Looks to me like everybody is saying the same thing, but just using

different frames of reference and terminology.

Good luck with the fox.

--

Frank Emens
femens@hiwaay.net

Date: Thu, 18 Jul 2002 19:34:42 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130094] FOX Logs from last week
Message-ID: <002301c22ecc\$da1dfe40\$e293b2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Did I miss the fox hunt logs from last week? Didn't see them get posted...

73's Trev KG6CYN

Date: Thu, 18 Jul 2002 22:44:47 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130095] Re: Conjugate matching
Message-ID: <20020719024447.BKZC19755.imf22bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/18/02 9:49 PM, Karl F. Larsen at k5di@zianet.com wrote:

> This guy Maxwell has both you James and George convinced that a
>common antenna tuner which is usually 2 variable caps and an inductor
>tapped will tune not only the impedance of the feedline from $x + jy$ to a
>simple $x = 50$ ohms will ALSO tune the antenna somehow.

Hello Karl. It tunes the antenna SYSTEM, that includes the feedline.
Don't forget the feedline, it is an important part.

> I'm sorry. I don't have a copy of anything Maxwell has written.

>I'm an EXPERT with Maxwell's Equations since I taught that for many
>years. I'm sure that was another Maxwell of 1850 fame.

Wrong Maxwell. (Although you theoretically could derive them from J. C. Maxwell's original equations, that would seem a somewhat laborious, and yet unnecessary exercise)

> So if someone could point me to a way to get his papers I will
>do it. The 1996 ARRL Handbook does explain in detail conjugate match in
>a coupling circuit and in a antenna tuner. In the later it talks about
>how a tuner cancels out the reactance of the load.

It states very clearly in my 1991 ARRL Handbook (the section has been edited out of the 2000 Handbook, it may have been moved to the Antenna Handbook for all I know):

"The conjugate match is defined by the National Institute of Standards and Technology (NIST) as the condition for maximum power absorption by a load, in which the impedance seen looking toward the load at a point in the circuit is the complex conjugate of that seen looking toward the source."

The text goes on to say that a $Z(0)$ match is the a special case of the conjugate match, where the imaginary (reactive) part of the impedance is always zero.

The text also indicates that the proper term for a device placed between a transmitter and a transmission line is properly a Transmatch. Not the more commonplace "antenna tuner."

The following section titled "The Conjugate Matching Theorem" states simply:

"When a conjugate match is accomplished at any of the junctions in the system, any reactance appearing at any junction is cancelled by an equal and opposite reactance, which also includes any reactance appearing in the load. This reactance cancellation results in a net system reactance of zero, establishing resonance in the entire system. In this resonant condition the generator delivers its maximum available power to the load"

So, it follows that providing a conjugate impedance at the input to the transmission line effectively cancels all reactive components everywhere in the antenna system -- meaning every point in the feedline, and at the antenna itself. The lack of reactive components signifies resonance -- which means maximum power transfer.

See, Karl, the "antenna tuner" does have effects everywhere, even at the

antenna.

>Says nothing about
>changing the feedline or the antenna.

That's the whole point -- the feedline and antenna need not change so long as they are supplied with a conjugate impedance. And if you reach a conjugate condition at any point in the system -- all other points reach that condition as well.

> About time for the Fox Hunt.

Already worked them both, Thanks.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 19:46:59 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130096] FOXII Think I bagged both tonight!!!
Message-ID: <003301c22ece\$8e387300\$e293b2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

K0FRP was pretty strong into Burbank, CA tonight and was able to bag that fox at 02:30, looked around for N3BJ and found him up around 14.061 pounding the brass pretty fast. Think I got him. I thought he asked for a repeat of my name, but he faded out after I sent it...I guess we'll see if I got through or not after the logs are published. Thanks to both FOXII for taking the time out to be pounced on ;-)

73's Trev KG6CYN

Date: Thu, 18 Jul 2002 22:34:35 -0400

From: Fred Lesnick <flesnick@tbaytel.net>
To: QRPL <qrp-1@lehigh.edu>, QRP Canada <qrp-canada@neale.gpfn.sk.ca>
Subject: [130097] FOXII mine.....
Message-ID: <3D377ABB.DBE1A7A9@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Worked em both by 0233..... Nice signals... BUT CO is much louder
tonight then VA is.....

Fred
VE3FAL

Date: Thu, 18 Jul 2002 21:03:59 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-1@lehigh.edu
Subject: [130098] Conjugate Match
Message-ID: <Pine.LNX.4.44.0207182051060.3933-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I forgot about the Fox hunt and went to the ARRL web page as a member and after about 15 minutes found a lot of papers I could get in pdf form. I'm now trying to print out "Proving the Conjugate Matching Power Theorm", Jack Lau, W1VT and this is very mathematical and right up my alley. I like the L matching network only because I wrote the equasions for it and they work.

I also got Reflections that is 68 pages of the work of Maxwell. I will try and understand that from the Adobe viewer.

By the way the therom proof is from July/Aug 2000 QEX.

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Thu, 18 Jul 2002 21:54:05 -0500

From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130099] FOX -- Towfer Again! :-)
Message-ID: <200207190254.AA01406@bolshoi.cc.misu.nodak.edu>
Content-Type: text/plain
Mime-Version: 1.0 (NeXT Mail 4.2mach_patches v148.2)

Just brought A1 to bag to complete the set for tonight. *Very* tough copy, just above the noise, dropping to below ESP level at times. A few repeats were needed to complete the QSO, but we got it done.

Don't know if it's just me, but the propagation has been rather challenging as far as fox hunting goes this summer. Being smack-dab in the middle of the continent, more or less, has its advantages at times, but then again when the band is long, and the foxii close, one's work is cut out for them. :-) Glad the foxii have good ears! Thanks guys!

72/73,

Tod, AGOT

Date: Thu, 18 Jul 2002 22:58:17 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130100] RE: Experiment of reproducible results PART II
Message-ID: <20020719025948.YCVJ11981.imf03bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/18/02 7:31 AM, Karl F. Larsen at k5di@zianet.com wrote:

>> Poppycock! Well-designed and properly adjusted tuners have negligible
>> loss.
>>
> Please go to my web page at www.zianet.com/k5di/ and look at my
> measurements of a MFJ T tuner. It HAS loss.

I don't think the MFJ tuner in question meets the "well-designed" criteria. I had a similar MFJ tuner, and realised that the top and bottom panels acted as shorted turns on both ends of the inductor. (the inductor was about 2 mm from each panel).

Also, the fact that a tuner has a stepped inductance does not permit

adjustment to the point of best match and least loss. Try a roller-inductor tuner that has sufficient space around the inductor.

Yes, the tuner does have loss, but it is no where near 10%. The coax jumpers from the transmitter probably have greater loss than the tuner does.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 20:01:51 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: FP List <fpqrp-l@mpna.com>, QRP-L <qrp-l@lehigh.edu>
Subject: [130101] where away, the Fox?
Message-ID: <20020719030152.20374.qmail@web10003.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I've seen nor hide nor hair of N3BJ, nor anyone working him!?

Do You Yahoo!?
Yahoo! Autos - Get free new car price quotes
<http://autos.yahoo.com>

Date: Thu, 18 Jul 2002 22:59:34 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130102] RE: Experiment of reproducible results PART II
Message-ID: <20020719025933.CADA19755.imf22bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/18/02 7:31 AM, Karl F. Larsen at k5di@zianet.com wrote:

>I'm not at all sure I agree with "conjugate match" as anything
>that works.

Whether you agree or disagree is unimportant. A conjugate match is something approved by NIST. I'll take their word over your objections.

>All the tuner does is take a balanced impedance and
>transform it to an unbalanced 50 ohm output.

What do you mean by "balanced" impedance? Please explain.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 23:05:39 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <mulline@tycoelectronics.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130103] RE: Experiment of reproducible results PART II
Message-ID: <20020719030710.KZI01185.imf06bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/18/02 11:57 AM, Mullin, Edward J. at mulline@tycoelectronics.com wrote:

>I am thinking to terminate each tuner with a 50 ohm load and connect them to
>a HP network analyzer, and see just what each tuner is doing/not doing, for
>impedance matching. I was thinking that using a load would show only the
>effects of the tuner circuits, and I can't string a 66 ft wire around the
>lab anyway (doubtful that would be a realistic representation of an antenna
>mounted outdoors anyway.)

One problem with these tests is they don't pass the reasonableness test.
If tuners have 10-90% loss, as Karl suggests, WHERE DOES ALL THE ENERGY
GO?

If I crank 1.5 kW into a tuner that Karl claims has 10% loss, that means
that 150 W must be dissipated as HEAT. Now, if you have ever lit up a 100
watt light bulb for a couple of minutes and touched it, you know that it
gets hot. Put 150 watts into the confined box of your typical 2 kW
antenna tuner, and it should be too hot to touch within minutes. (My
Murch UT-2000A is about the size of two shoeboxes put together) Hasbro
has been selling EZ-Bake ovens for over 30 years based on this principle.

But the fact is -- tuners don't get this hot. Even when used continuously in contest service at maximum allowable amateur power, they don't even get warm!

Hams make the same argument about UHF connectors (eg PL-259 / SO-239) being lossy at HF. If they were, they would get HOT HOT HOT when passing 1.5 kW. They don't.

Claims of "loss" without actual heating are a myth, pure and simple.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 23:13:20 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <w5yr@att.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130104] Re: Experiment of reproducible results PART II
Message-ID: <20020719031451.BVMZ11646.imf07bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/18/02 5:19 PM, George, W5YR at w5yr@att.net wrote:

>The bottom line is the action of the tuner does in fact alter the impedance
>seen at the antenna/feedline junction, compared to that of the antenna
>alone, such that maximum power can be transferred. Whatever reactive
>component is presented by the antenna (measured alone) is exactly
>compensated by the line connection and the remote action of the tuner.
>Thus, the antenna is itself "tuned" in that sense. There may still be a
>Zo-mismatch which will create a reflected wave, etc. but that does not
>alter the action of the tuner in allowing maximum power transfer to the
>antenna by disposing of the effect of the antenna input reactance. The Zo
>mismatch occurs when the real part of the antenna impedance (measured
>along) does not match the line Zo. The two matches are different and you
>can have either, both or neither.

A nit. If you have a $Z(0)$ match, by definition, you have a conjugate match. The conjugate of $R + j0$ is $R - j0$, or just plain R . You cannot have a $Z(0)$ match without a conjugate match. (but you can have a conjugate match without a $Z(0)$ match)

A Z(0) match avoids the presence of reflections on the feedline (eg SWR). These reflections may cause additional feedline loss that may occur in other conjugate conditions. If you have a low-loss feedline, the tiny amount of loss due to the reflections may not be significant.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 23:15:48 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130105] Re: Conjugate Match
Message-ID: <20020719031720.IVBG1218.imf13bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/18/02 11:03 PM, Karl F. Larsen at k5di@zianet.com wrote:

>I forgot about the Fox hunt and went to the ARRL web page as a
>member and after about 15 minutes found a lot of papers I could get in
>pdf form. I'm now trying to print out "Proving the Conjugate Matching
>Power Theorem", Jack Lau, W1VT and this is very mathematical and right up
>my alley. I like the L matching network only because I wrote the
>equations for it and they work.

Karl, I don't know what your problem is, but you don't need higher math to understand Maxwell's conjugate matching theorem. If it works for you, then fine, but everything we've described so far is a very straightforward overview of the situation.

> I also got Reflections that is 68 pages of the work of Maxwell.
>I will try and understand that from the Adobe viewer.
>
> By the way the theorem proof is from July/Aug 2000 QEX.

I hope it proves the theorem, in addition to the "theorem".

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 21:18:52 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-1@lehigh.edu>, <dafouchey@comcast.net>
Subject: [130106] Re: Gastronomic oddities (QR0)
Message-ID: <B95CE13B.1952F%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Dave - When males of a domesticated species are born, they are good for only two purposes, breeding or eating. The ones that do not have a predigee are rasied for meat. Males raised for meat grow faster if their tesitcles are removed. This is the distinction between a steer and a Bull. Or a Stallion and a gelding. When these working parts are removed, they can be consumed. Hence Turkey fries, rocky mountain oysters, and a host of other wonderful euphesims for this vital meat. With Tabasco, a wonderful treat. - Dr. Megacycle KK6MC/5

--

James R. Duffey KK6MC/5
Cedar Crest, NM DM65

Date: Thu, 18 Jul 2002 23:22:11 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <NV9Z@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130107] Re: FD: All or None Rule
Message-ID: <20020719032343.UTFI14378.imf12bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 6/28/02 10:24 PM, NV9Z@aol.com at NV9Z@aol.com wrote:

>BOTTOM LINE: A lot of OPs think we QRPers are odd-balls.

Uh, I got news for you:

Some QRPers ARE odd-balls....

'nuff said!

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
-- Wilbur Wright, 1901

Date: Fri, 19 Jul 2002 22:24:14 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'aa4lr@arrl.net'" <aa4lr@arrl.net>,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130108] RE: Experiment of reproducible results PART II
Message-ID: <01C22F73.042E8FA0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Bill-

Not necessarily supporting all of Karl's views here, but ...

Just because I don't believe that providing the transmitter with its required 50 ohm load necessitates a conjugate match to the transmitter's internal impedance, doesn't mean I disagree with the conjugate matching theorem. (I CAN have it both ways!)

The conjugate matching theorem is easy to see and irrefutable. However, it describes a point of maximum power transfer from a source, with 50% efficiency. This is not always the case and not always desired with real world transmitters.

72--Nick, WA5BDU

-----Original Message-----

From: Bill Coleman [SMTP:aa4lr@arrl.net]

Whether you agree or disagree is unimportant. A conjugate match is something approved by NIST. I'll take their word over your objections.

Date: Thu, 18 Jul 2002 22:32:12 -0500
From: Ted Kell <tedkell@ev1.net>
To: dafouchey@comcast.net,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130109] Re: Gastronomic oddities
Message-ID: <200207182234961.SM00296@default>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

7/18/02 4:12:22 PM, Dave Fouchey <dafouchey@comcast.net> wrote:

>I'm almost afraid to ask Hubert...;-)

>

>Also What the heck are "Turkey Fries" guys? Deep Fried Turkeys I know of
>but Turkey Fries???

>

AHHA, come to Archicon and you _shall_ find out. Archicon is worth going to, even
if you don't have the courage to try
the Turkey Fries...

N3Ted

>

>And as for Haggis, I just can't work myself up to eating a sausage made
>with lungs..scots ancestors of no....

>

>73's and Bon Appetite

>

>Dave

>WA4EMR

>Sterling Heights, MI

>

>

>At 09:58 PM 7/18/02 +0100, Hubert Smits wrote:

>>Haggis, tsjk, tsjk, we're now into deep fried Mars bar here in Scotland!

>>

>>73 de Hubert

>>

>>| -----Original Message-----

>>| From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]

>>| On Behalf Of Karl Kanalz

>>| Sent: 18 July 2002 20:48

>>| To: Low Power Amateur Radio Discussion

>>| Subject: Re: Turkey Fries

>>|

>>|

>>| In a fit of revulsion (and perhaps a little gagging) you wrote:

>>|

>>| -----Original Message-----

>>| From: Tony Fishpool [SMTP:tony@g4wif.fsnet.co.uk]

>>| Sent: Thursday, July 18, 2002 2:36 PM

>>| To: Low Power Amateur Radio Discussion

>>| Subject: Re: Altoid Tin first usage?

>>|

>>| John,

>>| Having been conned into trying these by Doug Hendricks I
>>| rather feel that the U.S. needs to impose strict export
>>| controls on these items :-)
>>|
>>| 72/3
>>| Tony - G4WIF
>>|
>>|
>>| Aw come on, Tony! You know you liked the taste of those
>>| "turkey fries" !! Anybody who can eat a "Haggis" can't
>>| ignore the superior flavor of "Turkey Fries" !!
>>|
>>| If the U.S. Department of Commerce is to restrict exportation
>>| of "Turkey Fries", then they must at least open our borders
>>| so you can return to ArkieCon next year so you can keep up
>>| "your end" of the Turkey Fries consumption (along with some
>>| deep- fried pickles!) !!
>>|
>>| Karl K - W8TIF
>>| (ex-G5AGX)
>>|
>
>
>

Date: Thu, 18 Jul 2002 22:32:37 -0500
From: Ted Kell <tedkell@ev1.net>
To: tony@g4wif.fsnet.co.uk,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130110] Re: Altoid Tin first usage?
Message-ID: <20020718223451.SM00584@default>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

It seems to me that Gruhm told me what Altoids were over there. Is the new product experiencing much success?

N3Ted

5/21/02 11:31:37 AM, "Tony Fishpool" <tony@g4wif.fsnet.co.uk> wrote:

>Leon,

>Alas, along with other civilising influences from the new world (such as air
>conditioning in cars) we are now able to get the real deal from Mr Altoid.
>
>These mints are now available in our supermarkets (i.e. Sainsburys).
>
>It will be colour TV next!
>
>72/3
>Tony - G4WIF
>
>
>> Altoids as such have never been sold in
>> the UK AFAIK, but mints are sold in
>> similar tins by Marks and Spencers.
>> --
>> Leon Heller, G1HSM
>
>
>
>

Date: Thu, 18 Jul 2002 22:32:31 -0500
From: Ted Kell <tedkell@ev1.net>
To: jamesd1@flash.net,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130111] Re: Conjugate matching
Message-ID: <200207182234994.SM00584@default>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

7/18/02 7:14:19 PM, "James R. Duffey" <jamesd1@flash.net> wrote:

>Karl - Boy I would like to see and hear the explanation of conjugate
>matching that you looked up.
>
>I suggest that you get a copy of Reflections II by Maxwell and read Chapter
>7, or dig up your August 1976 copy of QST and read the article "My Antenna
>Tuner Really Does Tune My Antenna" also by Maxwell.

Maxwells original articles are available on the ARRL web site, in the nomn-member
required section. Maybe you could
get Ed Hare to send them to you if not. His concepts are very interesting.

N3Ted

>
>A conjugate match has everything to do with feedlines and antennas.
>I was going to give a short explanation, but if George can't convince you I
>am not sure that I can.
>
>Read the Maxwell article. If you still don't believe in conjugate matching
>I'll take a crack at explaining it. - Dr. Megacycle KK6MC/5
>--
>James R. Duffey KK6MC/5
>Cedar Crest, NM DM65
>
>
>

Date: Thu, 18 Jul 2002 23:36:10 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: "nkennedy@tcainternet.com" <nkennedy@tcainternet.com>,
"Low Power Amateur Radio Discussion " <qrp-l@lehigh.edu>
Subject: [130112] RE: Experiment of reproducible results PART II
Message-ID: <20020719033742.ZCXP11981.imf03bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/19/02 11:24 PM, Nick Kennedy at nkennedy@tcainternet.com wrote:

>Not necessarily supporting all of Karl's views here, but ...
>
>Just because I don't believe that providing the transmitter with its
>required 50 ohm load necessitates a conjugate match to the transmitter's
>internal impedance, doesn't mean I disagree with the conjugate matching
>theorem. (I CAN have it both ways!)

I didn't say ANYTHING about what happens INSIDE the transmitter. To me,
it is just a generator -- a source of energy.

>The conjugate matching theorem is easy to see and irrefutable. However, it
>describes a point of maximum power transfer from a source, with 50%
>efficiency. This is not always the case and not always desired with real
>world transmitters.

Where do you get the 50% efficiency part? If the feedline and transmatch have no loss, than 100% of the power delivered to the transmatch will be delivered to the load. (Practically speaking, the typical transmatch has very little loss, and feedlines can be selected which have minimal loss)

I don't see where 50% efficiency enters any part of the equation.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 23:35:18 -0400
From: adamvaz@palm.net (Adam Vazquez)
To: qrp-1@lehigh.edu
Subject: [130113] Re: Modulation modes
Message-ID: <20020719033518.8496B450C@mo110uhou.palm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Did anyone note that the noise on the received signal could have made a preceived difference?

Date: Thu, 18 Jul 2002 23:45:08 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: "QRP" <qrp-1@lehigh.edu>
Subject: [130114] FOX -- are we being legal here?
Message-ID: <20020719034507.DIQR19755.imf22bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: quoted-printable

I just wanted to bring up an issue here, since I noticed it in the previous hunt, and also this week.

In both cases, I worked a "fox" who sent me my call, my report, his location, name and power.

However, during the time I listened, he never once sent his callsign.

After working a station, he would just send "TU" or "QRZ" and listen, then work someone else. This went on and on for several stations.

Now, according to the rules:

"=A797.119 Station identification.

(a) Each amateur station, except a space station or telecommand station, must transmit its assigned call sign on its transmitting channel at the END of each communication, and at least every ten minutes during a communication, for the purpose of clearly making the source of the transmissions from the station known to those receiving the transmissions."

Notice I have capitalized the word "END" for emphasis. The FCC doesn't formally define the "end of each communication", but most would interpret this to mean the end of communications with another amateur station.

Seems to me, once someone has completed a QSO with one station, he must, by the FCC rules, sign his callsign. Since all the foxes so far have been US licensees, this rule would seem to apply to them.

So, I would suggest that future foxes consider sending their callsign after each QSO. Thanks.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 20:44:31 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130115] Re: FOX Logs from last week
Message-ID: <004b01c22ed6\$979e2cc0\$e293b2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks Gang...I found them!

73's Trev

----- Original Message -----

From: Trevor Jacobs <kg6cyn@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Thursday, July 18, 2002 7:34 PM
Subject: FOX Logs from last week

> Did I miss the fox hunt logs from last week? Didn't see them get
> posted...
>
> 73's Trev KG6CYN
>

Date: Thu, 18 Jul 2002 23:48:02 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130116] Re: FOX: Nuts!
Message-ID: <20020719034934.HDAA28883.imf11bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/18/02 7:54 AM, Karl F. Larsen at k5di@zianet.com wrote:

>Will turn my beam east and work N3JB and then find the hounds
>working Alan K0FRP and listen for 2 hours.

Gosh, Karl, last week I listened for over an hour and couldn't find the
guys working the Paul in NY!

Damndable propagation....

Who knows, you may get lucky.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 18 Jul 2002 22:50:03 -0500
From: Tim Pettibone <k5oi@cox.net>
To: qrp-1@lehigh.edu
Subject: [130117] One explanation

Message-ID: <5.1.0.14.0.20020718224915.009e9db0@pop.central.cox.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

There is only one explanation ... Colorado no longer exists!

Tim K5OI
Stillwater, OK

Date: Thu, 18 Jul 2002 23:01:41 -0500
From: "George, W5YR" <w5yr@att.net>
To: "qrp-l@Lehigh.edu" <qrp-l@lehigh.edu>
Subject: [130118] (Fox) A Good Evening!
Message-ID: <3D378F25.F09C8225@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Started off with an easy Truffle - very loud, Randy! - and when the Hunts started, Alan was boiling in as well.

But remembering ET from last week and no joy then, I decided to concentrate on Al while there might still be some propagation. Spent about 20 minutes to no avail - never ever heard more than an occasional blast of CW near his announced frequency. So, back to Alan and a quick pelt.

Bottom line: took nearly an hour to even *hear* Al and know for sure where he was. He poked his head up out of the noise a time or two but always while working someone. Meanwhile locals about 60 miles away were copying Al S9+10 dB! Finally he ran dry and his CQs started poking out of the noise and managed to call where he was listening and nailed him.

So, three good ones tonight and my thanks to our Foxii and Truffles for all the fun.

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Date: Thu, 18 Jul 2002 22:20:34 -0600

From: "Al Dawkins" <alk0frp@attbi.com>
To: <qrp-l@lehigh.edu>
Subject: [130119] Fox results unofficial K0FRP
Message-ID: <033201c22edb\$a0e25c20\$0500a8c0@homev3v5yzk21f>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

That was fun remind of the pileups in Sweepstakes when I lived in North Dakota 20 years ago.
Great first hour 63 q's but the door shut fast only 12 Q's in the second hour. either the band closed or I worked everyone.

Digital QRM was a bit rough at 0300 Z My 4 el mono at 82 feet is not operational so I used my low tribander at 35 ft. seemed to be ok
I heard much better than I did in Maryland Sunday with a dipole at 6 feet.

75 q's total

Al K0FRP

Date: Thu, 18 Jul 2002 22:36:03 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: <k5oi@cox.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130120] Re: One explanation
Message-ID: <001301c22edd\$caf291e0\$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

C0 exists Tim,

But many of us are preoccupied with draught, heat and fires. Here is the view from my neighborhood:

http://www.frii.com/~rwc/big_elk_fire.jpg

That is smoke from the Big Elk Fire, about 25 miles to the west.
Sadly, I note this picture was taken about the same time a big slurry bomber crashed. Sadder still--there is strong evidence this fire (like others) may have been arson.

But we're here, we're kickin', and we're taken care of our own. When times are better you'll hear from us, big time.

73, Rod N0RC

----- Original Message -----

From: "Tim Pettibone" <k5oi@cox.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Thursday, July 18, 2002 9:50 PM

Subject: One explanation

> There is only one explanation ... Colorado no longer exists!

>

> Tim K5OI

> Stillwater, OK

>

>

>

Date: Thu, 18 Jul 2002 23:38:12 -0500

From: <mgoins@usa.net>

To: <qrp-1@lehigh.edu>

Subject: [130121] FOR SALE

Message-ID: <20020719043812.1955.qmail@cmsweb26.cms.usa.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

Minimizing the station, and the following is excess to current needs:

* Datong FL-3 - Excellent analog filter. Looks very good. \$45.00

* LDG Z-11 - qrp tuner. Factory built (black). Excellent. \$145.00

* AEA Contester CK-2. Like new. Nice memory keyer. \$50.00

* HTX 200, mini-2 meter HT. Excellent. \$60.00

* KLM 70 watt amp for 2 meters. looks good. \$65.00

* MFJ powerstrip. 8 connections, 15 amp, metered. \$40.00

- * Kenwood SP-40 speaker. Original box. Excellent. \$60.00
- * Kenwood TS-440S. Have manual, original double box. \$450.00
- * Pyramid PS-36K power supply. Very good. Used to power everything in the station. Will not sell except with the 440, or after the 440 sells. \$120.00 (heavy)
- * Cubex spiders (old) for use with a 2" boom (no boom). =
- * Also have eight one-piece, heavy-duty spreaders (for use with a 10-20 = meter quad). Make offer.

Would prefer local buyer for the Kenwood 440, the Pyramid power supply, and the quad spreaders (heavy or difficult to ship). All prices are plus freight.
Thanks.

mike
wb5yjx

Date: Thu, 18 Jul 2002 23:40:23 -0500
From: "George, W5YR" <w5yr@att.net>
To: w5xe@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130122] Re: Conjugate matching
Message-ID: <3D379837.F590A812@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thank *you* Bill for the kind words. I guess a series like this makes up for some of the little nonsense threads that we get into at times on QRP-L. We are having some good healthy and professional exchanges without any name-calling. I am learning a lot and hope that others are as well.

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!

QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

William R Colbert wrote:

>
> Thank you George and other contributors to your excellent
> discussion. I enjoyed it and even learned some as well.
> Nothing like an excellent teacher - sort of reminds me of the
> days when such discussions were done on 75 meters after
> chores and dinner were done. Most of us learned a lot
> that way.

Date: Fri, 19 Jul 2002 00:54:49 EDT
From: RLemmel@aol.com
To: fpqrp-l@mpna.com, qrp-l@lehigh.edu
Subject: [130123] Preliminary Truffle Report
Message-ID: <115.14afd688.2a68f599@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Thanks to all who participated in the Truffle Hunt Thursday evening.
There was a abundance of hunters with a variety of signal levels. Some were
esp and some sounded like they were running 500 watts next door. There was
also a fair amount of qsb at my qth. About 15 minutes into the hunt I
thought every had qrt.

Due to guests I did not get a chance to play in the Foxii Chase and also
did not get a chance to try to make out my log. The report will follow
shortly.

72-Randy,WV9N

Date: Fri, 19 Jul 2002 00:11:58 -0500
From: "George, W5YR" <w5yr@att.net>
To: nkennedy@tcainternet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130124] Re: Experiment of reproducible results PART II
Message-ID: <3D379F9E.F082C004@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Nick, I have to take back your 50-ohm resistor prize. To save words here, let me suggest that you look at Reflections for the gory details, but the maximum transfer of power at a conjugately match junction in a system of linear LLFPB two-terminal pair networks is not the same thing as the maximum power transfer theorem concerning conjugately matching a complex load to a complex source impedance.

In the latter case, the proper match ensures 50% efficiency at best since the load can consume only half the power being delivered by the source. But in a conjugately matched network of networks, if the networks are lossless then all the power input to the system is conserved and in the case of a lossless tuner/feedline/antenna system all the power delivered by the source (transmitter) will be radiated by the antenna.

In this case, the source delivers its Maximum *Available* Power which differs from the Maximum Power it can deliver. The distinction is that the load resistance is chosen in the first case to obtain the most power that the transmitter can deliver and still meet specs on power output, efficiency and distortion. In the second case, all that goes out the window and the transmitter just "gives its all" with attendant bad results.

No, we aren't ever after Maximum Power Transfer in the classical sense with our amplifiers. But the load resistance we afford them determines how much of their Maximum Available Power can be taken. And all of that power that is applied to a lossless tuner/feedline/antenna system is radiated.

73/72/00, George W5YR - the Yellow Rose of Texas
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Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Nick Kennedy wrote:

>
> Bill-
>
> Not necessarily supporting all of Karl's views here, but ...
>
> Just because I don't believe that providing the transmitter with its
> required 50 ohm load necessitates a conjugate match to the transmitter's
> internal impedance, doesn't mean I disagree with the conjugate matching
> theorem. (I CAN have it both ways!)
>
> The conjugate matching theorem is easy to see and irrefutable. However, it
> describes a point of maximum power transfer from a source, with 50%
> efficiency. This is not always the case and not always desired with real

> world transmitters.

Date: Fri, 19 Jul 2002 00:15:15 -0500
From: "George, W5YR" <w5yr@att.net>
To: aa4lr@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130125] Re: FOX -- are we being legal here?
Message-ID: <3D37A063.7BABB77E@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

We Hounds are just as bad, Bill. We send out our calls until the Fox calls us back. Then we send a response ending usually with BK and the Fox takes back up.

So your point should apply equally well to Hounds. Guess we are taking a few too many shortcuts?

73/72/oo, George W5YR - the Yellow Rose of Texas
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Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Bill Coleman wrote:

>
> I just wanted to bring up an issue here, since I noticed it in the
> previous hunt, and also this week.
>
> In both cases, I worked a "fox" who sent me my call, my report, his
> location, name and power.
>
> However, during the time I listened, he never once sent his callsign.
>
> After working a station, he would just send "TU" or "QRZ" and listen,
> then work someone else. This went on and on for several stations.
>
> Now, according to the rules:
>
> " 97.119 Station identification.
>
> (a) Each amateur station, except a space station or telecommand station,
> must transmit its assigned call sign on its transmitting channel at the
> END of each communication, and at least every ten minutes during a

> communication, for the purpose of clearly making the source of the
> transmissions from the station known to those receiving the
> transmissions."
>
> Notice I have capitalized the word "END" for emphasis. The FCC doesn't
> formally define the "end of each communication", but most would interpret
> this to mean the end of communications with another amateur station.
>
> Seems to me, once someone has completed a QSO with one station, he must,
> by the FCC rules, sign his callsign. Since all the foxes so far have been
> US licensees, this rule would seem to apply to them.
>
> So, I would suggest that future foxes consider sending their callsign
> after each QSO. Thanks.

Date: Thu, 18 Jul 2002 23:19:46 -0600
From: "Brian P. Milesosky" <n5zgt@swcp.com>
To: "QRP-L" <qrp-l@lehigh.edu>, <aa4lr@arrl.net>
Subject: [130126] Re: FOX -- are we being legal here?
Message-ID: <003f01c22ee3\$ea120aa0\$f404b8d8@hlw11>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Bill et al,

As an Official Observer, here is my take on the rule: Plain and simple,
ID every 10 minutes that you are on the air despite how many QSOs occur in
that span. If you need to take a break for 5 minutes to grab an ice-cold
coke even though you'll be back on, then ID to signify a temporary end of
communication. And finally, before setting the key aside to call it a
night, ID once more, as you have concluded communicating with stations on
the air.

Part 97 is explicit where it needs to be explicit, and it also leaves
room for interpretation in places. As long as the operator uses his/her
best judgment in interpreting them, everything should be fine. But if the
operator uses no judgment or tries too hard to wiggle around a rule, such
as
cussing and then trying to justify it with free speech to get around Part
97, that's when flags are raised and people like I have to do our kind
advisement. Hopefully the problem is solved at that point, otherwise

Gettysburg might get interested.

So keep on doing what you are doing. One of the great things about this group is that it is composed of people who really care for the preservation and advancement of the hobby and respect for the rules. I appreciate you and others asking questions rather than forging on with something that might cause problems later.

Have fun in Tuthill everyone...I'll be there next year!

72,
Brian, N5ZGT
Albuquerque, NM

----- Original Message -----

From: Bill Coleman <aa4lr@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Thursday, July 18, 2002 9:45 PM
Subject: FOX -- are we being legal here?

>
> I just wanted to bring up an issue here, since I noticed it in the
> previous hunt, and also this week.
>
> In both cases, I worked a "fox" who sent me my call, my report, his
> location, name and power.
>
> However, during the time I listened, he never once sent his callsign.
>
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> then work someone else. This went on and on for several stations.
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> ,
> must transmit its assigned call sign on its transmitting channel at the
> END of each communication, and at least every ten minutes during a
> communication, for the purpose of clearly making the source of the
> transmissions from the station known to those receiving the
> transmissions."

>
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> formally define the "end of each communication", but most would interpret
> this to mean the end of communications with another amateur station.
>
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> US licensees, this rule would seem to apply to them.
>
> So, I would suggest that future foxes consider sending their callsign
> after each QSO. Thanks.
>
>
>
> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
> Quote: "Not within a thousand years will man ever fly!"
> -- Wilbur Wright, 1901
>
>

Date: Thu, 18 Jul 2002 22:31:25 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130127] N3BJ FOX Audio Clip as recorded in Burbank,CA
Message-ID: <001b01c22ee5\$86ee2e20\$cadfb3d1@tjnotebook>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

Alan's signal was so strong near the end of the hunt tonight in Burbank,CA from Bent Mountain,VA that it suddenly occurred to me to record him. Anyway, I put it up on my web site if you are interested in hearing it. I think that I may start recording audio clips of the hunt and putting them online. I'll keep you all informed. The link to my page is
<http://home.earthlink.net/~kg6cyn> with a mirror at
<http://www.qsl.net/kg6cyn>. Alan was so strong that I turned my power down to 1/2 watt, and he did send my call back, but I don't know if he got the whole exchange. Was a lot of fun!

73's Trev KG6CYN

Date: Thu, 18 Jul 2002 22:48:24 -0700
From: "Tracy Markham" <tracy@bytemark.com>
To: qrp-1@lehigh.edu
Subject: [130128] Re: Audio Trouble Shooting
Message-ID: <MDAEMON-F200207182248.AA482434md50000239579@bytemark.com>

I thought I'd had enough of the '386 myself, but I have a box full and no '380s ... and after this little experiment I'm impressed with the little buggers.

But I don't think I have a problem in the '386 stage. It's configured for its max gain of 200, and by making a side tone generator from a pair of 4401's I was able to determine that the '386 is working remarkably well and quiet.

If I feed the side tone generator through a cap I can hear, but very low, a tone in the speaker. Isolated the 386 stage, put the side tone on the input and the speaker on the output - wow that's loud! Guess the 386 is working, and with NO hiss whatsoever. I was surprised how quiet that circuit is with no input and the gain at max.

OK, so at this point I have isolated a few problems, don't know but I'm sure I have to attenuate the tone generator a lot to keep from over driving the previous stages.

No doubt there is amplification between the first audio stage and the speaker ... distorted as heck, but I figured that I was over driving the stage. Then I bypassed the fourth transistor - viola! there is gain, the fourth transistor MUST be the stage with the problem. With it inline, all audio is stopped ...

Now here is my question. On a 2N3053, the one that's called out in the schematic for the product detector and audio amp of the progressive receiver, is the tab collector or emitter? I'm sure I just wired the thing in backwards ...

Tracy N4LGH

Date: Fri, 19 Jul 2002 06:56:50 +0100
From: Chuck Adams <k7qo@earthlink.net>
To: qrp-1@lehigh.edu
Subject: [130129] [OT] Newsletter Editor Question
Message-ID: <5.1.0.14.0.20020719065037.009fa680@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

I know that a number of newsletter editors are using PageMaker to do their typesetting.

I am working on a project for Tuthill next weekend, so I bit the bullet and started using PageMaker 6.5 but either it has a problem or I'm not too smart when it comes to reading the manual.

I set the default paragraph settings before importing an HTML file. The file comes in OK but PageMaker continues to use the old default settings for the paragraphs. When I look at the paragraph settings it shows them to be what I set them for. When I click on a paragraph and go to set the paragraph alignment I get the old values. Is there a way to overcome this and/or is there a way to globally apply the paragraph setting to the entire document????

Dweeb stuff!!! I've got the Hayden Book by Mortier, Wallace, et.al. but they aren't much help.

Is this clear to those of you that are experts on PageMaker?

Any help appreciated.

dit dit

Chuck Adams, K7QO CP-60 k7qo@earthlink.net
<http://www.qsl.net/k7qo>

Moving to Arizona? --- Bring your own water, please.

Date: Fri, 19 Jul 2002 18:01:50 +1000

From: "Adam" <jabba@w3.to>
To: "QRP-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [130130] I am impressed
Message-ID: <004b01c22efa\$8c7b7cc0\$7f3a32d2@kids>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow, I am impressed

Less than 7 days turn around for a new member welcome letter and certificate... international at that. That is faster than most local clubs can manage!

With service as good as that, I see why my member number is so high #11276.

Well done.

Adam VK4LAJ
<http://www.qsl.net/vk4laj>

Outgoing mail from this account has been scanned and found to be virus free. However, should you find that this email contains a virus please notify the sender immediately.

Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.377 / Virus Database: 211 - Release Date: 15/07/02

Date: Fri, 19 Jul 2002 01:10:14 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: <jabba@w3.to>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130131] Re: I am impressed
Message-ID: <003101c22efb\$b6d02b00\$cadfb3d1@tjnotebook>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Which Club???

----- Original Message -----

From: "Adam" <jabba@w3.to>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, July 19, 2002 1:01 AM

Subject: I am impressed

> Wow, I am impressed

>

> Less than 7 days turn around for a new member welcome letter and
> certificate... international at that. That is faster than most local clubs
> can manage!

>

> With service as good as that, I see why my member number is so high
#11276.

>

> Well done.

>

> Adam VK4LAJ

> <http://www.qsl.net/vk4laj>

>

>

>

>

> ---

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free.

> However, should you find that this email contains a virus please notify
the

> sender immediately.

>

> Checked by AVG anti-virus system (<http://www.grisoft.com>).

> Version: 6.0.377 / Virus Database: 211 - Release Date: 15/07/02

>

>

Date: Fri, 19 Jul 2002 18:12:51 +1000

From: "Adam" <jabba@w3.to>

To: "Trevor Jacobs" <kg6cyn@earthlink.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [130132] Re: I am impressed

Message-ID: <005801c22efc\$24554700\$7f3a32d2@kids>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

QRPARCI

I knew I forgot something :-)

Adam VK4LAJ
<http://www.qsl.net/vk4laj>

----- Original Message -----

From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: <jabba@w3.to>; "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, July 19, 2002 6:10 PM
Subject: Re: I am impressed

> Which Club???

>

> ----- Original Message -----

> From: "Adam" <jabba@w3.to>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Sent: Friday, July 19, 2002 1:01 AM

> Subject: I am impressed

>

>

> > Wow, I am impressed

> >

> > Less than 7 days turn around for a new member welcome letter and

> > certificate... international at that. That is faster than most local
clubs

> > can manage!

> >

> > With service as good as that, I see why my member number is so high

> > #11276.

> >

> > Well done.

> >

> > Adam VK4LAJ

> > <http://www.qsl.net/vk4laj>

> >

> >

> >

> >

> > ---

> > Outgoing mail from this account has been scanned and found to be virus
> free.
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> > sender immediately.
> >
> > Checked by AVG anti-virus system (<http://www.grisoft.com>).
> > Version: 6.0.377 / Virus Database: 211 - Release Date: 15/07/02
> >
> >

Outgoing mail from this account has been scanned and found to be virus free.
However, should you find that this email contains a virus please notify the
sender immediately.

Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.377 / Virus Database: 211 - Release Date: 15/07/02

Date: Fri, 19 Jul 2002 05:18:38 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [130133] Re: HowTO: Drilling Holes in Altoids Tins
Message-ID: <20020719045317.V28210-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

When I Drill in thin metal, I usually back it with a scrap of 2x4 or other
scrap wood. In some cases I also use a scrap of pcb inside and clamp the
hole affair. One way is with small brads thru pcb and tin into wood
block. That also works if you wish to add an outer pcb panel on one. You
can use Brass Linoleum Brads and then you can solder them to the inner pcb
to secure the panel and interior pcb sandwich. Another equally good trick
is to coat both sides of the tin and one side of each pcb with Contact
Cement, let it dry and then press the boards in place, For Good Measure
add two blocks of wood and squeeze in the vise for a few seconds. Then you
can drill your heart out as though you were on a thick pcb. Which is
exactly what you have made. Exterior PCB Panel and interior PCB Gnd Plane.

Perfect for "Altoid Manhattan Project" (K3tks Version).

One other possiability, which I have not yet had a chance to "SHOP TEST"
yet. I just purchased a Rubber Gasket Punching Set from Harbor Freight.

It uses a Spring loaded punch and lots of hole punches.

I ordered it when on sale for just this purpose. Actually I wanted to Cut some Larger Brass Circles. Similar thickness to the Altoids Tins.

I also have a roll of Aluminum Flashing left over from a recent Handyman Job. I am hoping to make lots of Aluminum Hole Covers. Cut them Out and add Contact Cement and a piece of wax paper and I have Quickie Hole Cover patches?

Got a Tin with Holes in the wrong place? Cover the Hole with "Real Aluminum Heat Duct Tape" then Contact Cement a PCB Ground Plane inside and use like brand new.

I had a bunck of DieCast Boxes with Meter Holes in them. I made pcb Circles out of pcb by Drilling a hole thru a piece of wood then thru into the under block of wood. then Move the Pilot Bit back inside of the Hole Saw and place a pcb between the wood sandwich jig. run the hole saw into the guide hole til it just cuts thru the pcb, instant Silver Dollar PCB Hole. I then fine tuned the edge with fine emory paper for a perfect fit into the hole in the diecast box. add 2 strips of that high grade aluminum duct tape and instan fix on the box. For good measure. I made Aluminum r PCB Panel and secured it to the Bottom/Top with the Lino Nail Trick as mentioned before.

I also use the Mototool and Pear Shape Grinding Wheel or a Reinforced Cutting Wheel. Depends on the type of hole that I need.

Also a Hole plus the nibbler also work if you have the room to work.

These tricks also work well on tuna cans, etc. I also save some of the lids off of coffee cans or big tomato cans. Never know when you need some scrap tin for a shim or a patch. Re-Cycle, Re-Cycle, Re-Cycle! :^}

Hey, Look at all of the neat stuff being made out of pcb Holes. :^}

GL es GN

QRPP Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,

Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, Donations Accepted.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Fri, 19 Jul 2002 06:55:21 -0400
From: Paul Valko <w8kc@comcast.net>
To: aa4lr@arrl.net,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130134] Re: FOX -- are we being legal here?
Message-ID: <016c01c22f12\$c7932020\$6401a8c0@p4main>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Bill,

If I recall, this debate was put to rest by the FCC years ago. The question arose from IDing on repeaters as well as contests and pileups. The end result was that the FCC determined that they were satisfied with the once every ten minute ID.

A string of transmissions was a "communication" as opposed to a single transmission. That is why you typically do not hear hams ID after every transmission on a repeater, as well as some contests and most pileups.

It squelched quite an uproar among the ham community at the time yet many type-A repeater trustees still demanded IDs after every TX or they would pull the plug on the machine - as is their right :-)

Hope this helps put your mind at ease. The original Foxhunts as designed by Chuck Adams required callsigns as well as NAMES be exchanged. As the hunts evolved into more of a contest/DX pileup practice, instead of a propagation study and operating event, the exchanges got shorter and shorter.

73! =paul= W8KC

Collector of Ten*Tecs and Other Fine Plastics.

Visit the Virtual Ten*Tec Museum at <http://mywebpages.comcast.net/w8kc>

Date: Fri, 19 Jul 2002 06:39:18 -0500
From: Wayne Rogers <w5kdj@juno.com>
To: nars@mailman.qth.net, qrp-1@lehigh.edu
Subject: [130135] Fw: AstroAlert: General HIGH Solar Activity Alert & Aurora Watch
Message-ID: <20020719.063918.-256787.0.w5kdj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A s t r o A l e r t
Sun-Earth Alert

Solar Terrestrial Dispatch
<http://www.spacew.com>

19 July 2002

Watch solar activity in real-time:
<http://www.spacew.com/sunnow>
(updated every minute)

Additonal imagery and information:
<http://www.spacew.com/astroalert.html>

GENERAL HIGH SOLAR ACTIVITY ALERT & AURORA WATCH

Some exciting and powerful activity is occurring on the Sun. We encourage all solar observers to help in observing the activity.

Sunspot complex Region 10030 has produced several major solar flares over the past few days. The latest was a class X1.8 solar x-ray flare at 07:44 UTC on 18 July. This event was associated with a fast coronal mass ejection that had an Earthward directed component (expected to impact the Earth soon). This is discussed in greater detail below.

In approximately 4 days, this spot complex will rotate behind the western

limb of the Sun and will be lost from view. It is in a state of gradual decay, but is still quite capable of producing energetic solar flare activity. It was a naked-eye sunspot complex as it rotated through the central solar meridian.

The other major sunspot complex being monitored is Region 10036. It is located on the eastern side of the Sun and is already identified (by John C.

McConnell on 18 July) as a naked-eye sunspot complex. It has not yet produced

any significant energetic solar flare activity, but certainly has the potential to do so at any time. This spot complex will remain a good target

for protected naked eyes and telescopic observations for some time. It is expected to transit through the central meridian in about 3 days and will remain on the visible side of our Sun for almost another 10 days. It may produce some influential levels of solar activity by then.

Another area of significant interest is an as-yet unseen sunspot complex that

is beginning to approach the eastern solar limb. Over the last week or so,

this unseen sunspot complex has been responsible for producing some very powerful coronal mass ejections on the back side of the Sun. These coronal

mass ejections have been imaged by the Solar and Heliospheric Observatory (SOHO). Some of the mass ejections have been clocked travelling at velocities

up to around 1,600 kilometers per second. In layman's language, this is 5.76

million kilometers per hour or 3.6 million miles per hour). Velocities this

high are difficult to imagine, so to help place this into perspective, imagine that a skilled astronaut could pilot a space vehicle at 1,600 km/sec. At this velocity, s/he could reach the Sun's surface in a little over

one day's time. A trip to the Moon would only take about 4 minutes.

The sunspot complex responsible for these powerful and fast coronal mass ejections is expected to begin rotating into view around the eastern limb of

the Sun over the weekend or very early next week. When it does, assuming the

spot complex remains as volatile as it has been on the backside of the Sun,

we may begin to see additional major solar flare activity.

Amateur solar observers are encouraged to keep a close eye on the eastern

limb of the Sun for possible signs of limb-based energetic activity. Those who have H-alpha filters that can be safely viewed through telescopes may witness some exciting activity. Energetic limb activity can produce spectacular surges where mass seems to stream out into space in a beautiful thread-like appearance. Impressive limb sprays where mass from the Sun appears to be suddenly "sprayed" into space are also common with energetic limb activity. Rarer forms of solar prominences can also be observed - for example, loop prominences are often visible in H-alpha following strong solar flares on the limb. These beautiful loops of material can appear very bright against the blackness of space and typically form during and after strong solar flare events (also known as post-flare loops). We encourage amateurs to report any observed and interesting activity to: STD@Spacew.Com. Observations of strong solar flares in H-alpha are also encouraged (please make certain you include the UTC time of your observations and be descriptive with what you see). Observers who are limited to observing the Sun in white-light are encouraged to watch for glimpses of possible white-light flares should solar activity become intense enough to produce such rare events. White light observers should also watch for rapid changes in sunspot structure. Rapid growth and decay often accompany significant solar activity. The appearance of a sunspot complex can change rapidly in just a matter of hours.

If you don't own a telescope, or a filter capable of observing the Sun, you can obtain current real-time images of the Sun in h-alpha at: <http://www.spacew.com/sunnow>. We are collaborating with numerous professional solar observatories worldwide to provide real-time h-alpha images to the amateur and professional scientific community. Imagery is updated up to once every minute. Daily archive records of h-alpha activity are also available in movie format at this site. When all observatories are cloudless, we are able to supply about 21 hours a day of continuous coverage.

Big Bear Solar Observatory is also providing excellent real-time h-alpha imagery at: http://www.bbso.njit.edu/Research/Halpha/ha_1minbw.html (but only between roughly 15:00 and 01:00 UTC daily [11 am and 9 pm EDT]).

TWO MERGING EARTHWARD-DIRECTED CORONAL MASS EJECTIONS

On 17 and 18 July, two major solar flares from Region 10030 produced a pair of coronal mass ejections that have the potential of producing periods of active to moderately strong auroral activity on 19 and 20 July. If the two disturbances constructively merge, periods of auroral storm activity may be observed that might produce sporadic episodes of visible activity throughout many dark-sky middle latitude regions. Otherwise, most of the activity may end up remaining confined to the higher latitudes. In response to these events, the Middle Latitude Auroral Activity Watch is being extended. If predictions hold true, activity could begin increasing with the arrival of the disturbances late in the UTC day of 19 July or early on 20 July. For North American observers, this corresponds to the late afternoon and evening hours of Friday, 19 July.

Observers who spot activity are encouraged to report their findings to the Global Auroral Activity Network at <http://www.spacew.com/submitsighting.html>.

Anyone interested in monitoring the vast resources of images on the Internet and staying informed on current solar activity and auroral activity are encouraged to download the free trial version of SWIM (www.spacew.com/swim).

A copy of the Middle Latitude Auroral Activity Watch is included below.

/\

MIDDLE LATITUDE AURORAL ACTIVITY WATCH

WATCH EXTENDED: 08:00 UTC, 19 JULY 2002

/\

VALID BEGINNING AT: IN-PROGRESS, BUT OF MOST CONCERN AFTER: 15:00 UTC 19 JULY

VALID UNTIL: 19:00 UTC (3 pm EDT) ON 21 JULY

HIGH RISK PERIOD: 19 - 20 JULY (UTC DAYS)

MODERATE RISK PERIOD: 19 - 21 JULY

PREDICTED ACTIVITY INDICES: 15, 35, 15, 15 (19 JULY - 22 JULY)

POTENTIAL MAGNITUDE OF MIDDLE LATITUDE AURORAL ACTIVITY: MODERATE

POTENTIAL DURATION OF THIS ACTIVITY: MAIN BELT = 12 HOURS

MINOR BELT = 12 TO 24 HOURS

ESTIMATED OPTIMUM OBSERVING CONDITIONS: NEAR LOCAL MIDNIGHT

EXPECTED LUNAR INTERFERENCE: MODERATE

OVERALL OPPORTUNITY FOR OBSERVATIONS FROM MIDDLE LATITUDES: FAIR

AURORAL ACTIVITY *MAY* BE OBSERVED APPROXIMATELY NORTH OF A LINE FROM...

OREGON TO SOUTHERN IDAHO TO WYOMING TO NORTHERN NEBRASKA TO IOWA TO ILLINOIS TO INDIANA TO OHIO TO PENNSYLVANIA TO NEW JERSEY.

ACTIVITY *MAY* ALSO BE OBSERVED APPROXIMATELY NORTH OF A LINE FROM...

IRELAND TO SOUTHERN ENGLAND TO NORTHERN BELGIUM TO CENTRAL GERMANY TO NORTH-CENTRAL POLAND TO NORTHERN BELARUS TO NORTHERN RUSSIA (ROUGHLY NORTH

OF A LINE FROM TVER TO YAROSLAVL TO SYKTYVKAR TO CENTRAL SIBERIA). NEW ZEALAND AND EXTREME SOUTHERN REGIONS OF AUSTRALIA MAY ALSO SPOT PERIODS OF ACTIVITY.

SYNOPSIS...

A pair of Earthward-directed coronal mass ejections (CMEs) from recent major solar flares in active sunspot complex 10030 are expected to reach the Earth late on 19 July or early on 20 July (UTC time). This translates to the late afternoon and evening hours of 19 July for North American observers. Dark-sky observers should be alert for possible periods of moderately strong auroral activity on these days. Significant auroral storming is not

presently anticipated although complex structures in the solar wind may accompany this disturbance as the faster of the two CMEs is expected to merge with the slower of the two near the Earth. As a result, there is a chance some periods of activity may be briefly unexpectedly strong if constructive interaction occurs between the two CMEs.

The active sunspot complex that was associated with these two earthward directed CMEs may still produce additional earthward directed CMEs over the coming days. However, it is in a state of gradual decay and the frequency of significant activity from this spot complex may similarly decrease.

A second sunspot complex of developing concern is rotating into a better position for producing potentially influential earthward-directed CMEs. Region 10036 has not yet produced any major solar flare activity, but is growing and increasing in magnetic complexity. It is currently capable of producing a major flare. This spot complex will remain a possible threat through at least the next week.

Behind this spot complex is a third spot complex that has not yet rotated into view around the eastern limb of the Sun. It is believed to be responsible for producing numerous very strong coronal mass ejections on the backside of the Sun. If this spot complex retains its integrity and structure through the next week or two, it may also pose as a future threat.

This watch will remain valid through 19:00 UTC (3 pm EDT) on 21 July. It will then be updated or allowed to expire. For updated information, visit:
<http://www.spacew.com/aurora/forum.html>

PLEASE REPORT OBSERVATIONS OF AURORAL ACTIVITY TO:
<http://solar.spacew.com/submitsighting.html>

Observations reported here are permanently recorded for future study and are immediately made available in real-time to a large network of observers

world-wide via the Internet, e-mail and pager. If you observe activity,
your
assistance to contribute to this database would be appreciated.

A FREE trial of the space weather "SWIM" software package is now
available at: <http://www.spacew.com/swim>. Use it to monitor current
conditions. It may also be used to monitor any image resource you find on
the
Internet (including almost any type of 'cam' or "pictures of the day" you
can find).

** End of the AstroAlert Bulletin **

=====

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replacing "e-mail@address.com" with your actual e-mail address.

=====

Date: Fri, 19 Jul 2002 13:49:57 +0200
From: "Ingo Meyer, DK3RED" <dk3red@t-online.de>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [130136] QQ article (OHR WM-1)
Message-ID: <3D37FCE4.870FE618@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello QRPer,

can anybody point me an (Internet) source for the

"Peak Power Modification for the OHR WM-1"

from Larry East W1HUE published on page 8 of the January 1995 issue of the
QQ. The URL published in the July 1998 QQ is now out of order.

TNX.

--

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de <http://www.t-online.de/~dk3red>
DL-QRP-AG #824 <http://www.dl-qrp-ag.de>

Date: Fri, 19 Jul 2002 07:05:36 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130137] Re: Ham shops in the Fort Worth area
Message-ID: <002901c22f1c\$98af24c0\$e036a6d8@texas.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For a place that is REALLY in Fort Worth, check out NORTEX Electronics (no relationship to the QRP club). It is great for the homebrewer looking for that hard to find air variable capacitor, etc. Just don't let anything fall on you.

There Web site is:

<http://www.montagar.com/~patj/nortex.htm>

The other places mentioned are at least an hour away from most of Fort Worth except for Fry's.

73,
Steve Yates - AA5TB

Fort Worth, TX EM12hu
<http://aa5tb.home.texas.net/>

Date: Fri, 19 Jul 2002 08:26:25 -0400
From: W2AGN <w2agn@w2agn.net>
To: aa4lr@arrl.net,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130138] Re: FD: All or None Rule
Message-ID: <3D37CD31.13167.35B6343@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 18 Jul 2002 at 23:22, Bill Coleman wrote:

```
> On 6/28/02 10:24 PM, NV9Z@aol.com at NV9Z@aol.com wrote:
>
> >BOTTOM LINE: A lot of OPs think we QRPers are odd-balls.
>
> Uh, I got news for you:
>
> Some QRPers ARE odd-balls....
>
> 'nuff said!
>
> Bill Coleman, AA4LR, PP-ASEL      Mail: aa4lr@arrl.net
> Quote: "Not within a thousand years will man ever fly!"
>      -- Wilbur Wright, 1901
>
```

I represent that statement!

--

```
/ \ / \ / \ / \ / \ John L. Sielke
( W )( 2 )( A )( G )( N ) http://www.w2agn.net
\_ / \_ / \_ / \_ / \_ / ARCI, NJQRP, ARQrp, GQRP, RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS
```

Date: Fri, 19 Jul 2002 08:28:56 -0400
From: W2AGN <w2agn@w2agn.net>
To: aa4lr@arrl.net,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130139] Re: Conjugate Match
Message-ID: <3D37CDC8.123.35DAF36@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 18 Jul 2002 at 23:15, Bill Coleman wrote:

```
> >pdf form. I'm now trying to print out "Proving the Conjugate Matching
> >Power Theorm", Jack Lau, W1VT and this is very mathematical and right up
> >my alley. I like the L matching network only because I wrote the
> >equasions for it and they work.
>
```

> I hope it proves the theorem, in addition to the "therom".

Hey, Bill, "equasions" never lie.

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
 _ / _ / _ / _ / _ / ARCI, NJQRP, ARQrp, GQRP, RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Fri, 19 Jul 2002 08:34:28 -0400
From: Tim ORourke <TORourke@kaiserft.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@lehigh.edu>
Subject: [130140] Re: Gastronomic oddities
Message-ID: <0514B74864ACD511934400508BBB5E3415F7E3@EMAIL1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

A gud German mentor of mine made his own sauer kraut and his secrete was to have the dog pee in the crock!
He made the best kraut bar none, best served with pork or smoked white fish.
73 Tim KG4CHX

Date: Fri, 19 Jul 2002 05:33:37 -0700
From: George Fremin III - K5TR <geoiiii@kkn.net>
To: qrp-1@lehigh.edu
Subject: [130141] Re: FOX -- are we being legal here?
Message-ID: <20020719053336.A12004@loja.kkn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Thu, Jul 18, 2002 at 11:19:46PM -0600, Brian P. Mileschosky wrote:

>

> As an Official Observer, here is my take on the rule: Plain and simple,
> ID every 10 minutes that you are on the air despite how many QSOs occur in
> that span. If you need to take a break for 5 minutes to grab an ice-cold
> coke even though you'll be back on, then ID to signify a temporary end of
> communication. And finally, before setting the key aside to call it a
> night, ID once more, as you have concluded communicating with stations on
> the air.

>

I tend to agree with the above interpretation.

Having said that - I would like to make some comments.

I worked both foxes last night after 0300Z and even though I listened to N3BJ make something like 5+ contacts I never did hear his callsign - I finally just gave up and tuned up the band. While I never did hear him send his callsign I am pretty sure I know who I worked.

When I found and worked K0FRP I listened to him make a number of contacts before I heard him finally send his callsign.

I found both of these experiences to be annoying.

I operate alot of contests and I think there are some very valid reasons to *not* sign your callsign after every QSO but there is never in my mind any reason to go for 5 minutes or more without sending your callsign at least once. Had this been the CQ WW or the Sweepstakes I would have called both of these stations again and asked them for their callsigns.

In my opinion at the slow rates both of these stations were working stations I do not think they would have worked fewer people if they had been sending their callsigns after every exchange.

While I consider not signing one's callsign after every QSO to be an advanced operating technique that can be used to great advantage to increase your score or QSO rate. I also feel that it is something that only needs to be done rarely.

It is possible to make 100+ QSOs an hour on CW and send your callsign during every contact. One example of this is the ARRL CW Sweepstakes even with it's long exchange - you send your callsign as part of the exchange along with alot of other information.

If you would like to read what I consider to be the definitive statement on signing or not signing your callsign after every QSO in a contest you can find it here:

<http://lists.contesting.com/pipermail/cq-contest/1998-July/032599.html>

In any event - the point of this long (too long) post is to point out that I did find it annoying last night that neither of the stations seemed to be sending their callsigns very often.

Maybe they feel they had valid reasons for not signing their calls each time - perhaps they were trying to limit the size of the pileup of stations calling or some other valid reason - I can not really say since I was not listening to their receivers.

73

--

George Fremin III

K5TR

geoiiii@kkn.net

<http://www.kkn.net/~k5tr/>

Date: Fri, 19 Jul 2002 08:57:36 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [130142] Re: Audio Trouble Shooting
Message-ID: <5.1.0.14.1.20020719085307.00a51e10@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:48 PM 7/18/2002 -0700, you wrote:

>Now here is my question. On a 2N3053, the one that's called out in the
>schematic for the product detector and audio amp of the progressive
>receiver, is the tab collector or emitter? I'm sure I just wired the
>thing in backwards ...

Tracy,

That's the metal can T0-5? The emitter is the lead nearest the tab, the base is the next one around the perimeter, and the collector is directly across from the emitter.

In some parts I believe the collector may be electrically connected to the case, but I'm not sure about this one.

Here's a handy little doc that shows that part (and others):

<http://www.jaycar.com.au/pdfs/3termdev.pdf>

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Fri, 19 Jul 2002 09:06:18 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <w5yr@att.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130143] Re: FOX -- are we being legal here?
Message-ID: <20020719130750.JWY011981.imf03bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/19/02 1:15 AM, George, W5YR at w5yr@att.net wrote:

>We Hounds are just as bad, Bill. We send out our calls until the Fox calls
>us back. Then we send a response ending usually with BK and the Fox takes
>back up.

Hmm. I suppose I always considered the contest-like exchange to be one
"communication". And since the hound sends his callsign (which the fox
repeats), it seems like the FCC requirements are satisfied.

But when the fox works several stations in a row without signing, that
would seem to be in conflict with the FCC rule.

>So your point should apply equally well to Hounds. Guess we are taking a
>few too many shortcuts?

I don't think so. If you look at the typical operation in contests, it is
similar:

(example is CQWW contest exchange)

CQ TEST ON4UN
AA4LR
AA4LR 599 14
R 599 5

This is the entire "communication" and each operator has signed. If I were to send R 599 5 AA4LR or AA4LR 599 5, ON4UN might take it as a correction of the call, and thinking that the original wasn't correct, he might "hear" something else in the QRN or QRM.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Fri, 19 Jul 2002 15:04:58 +0200
From: "Ingo Meyer, DK3RED" <dk3red@t-online.de>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [130144] Fwd: [GQRP] Your Story?
Message-ID: <3D380E7A.69CC723@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

PLEASE contact George off-list, because he is not listed on QRP-L!

----- Original Message -----
Subject: [GQRP] Your Story?
Date: Fri, 19 Jul 2002 11:56:02 +0100
From: "George Dobbs" <g3rjv@gqrp.fsnet.co.uk>
To: GQRP

I am preparing some material for a small Introduction to QRP for the RSGB and want 'inspire' people about QRP.

I could do with some input from other QRP operators... in two areas...

- 1] Some real QRP operating stories to show what can be done with low power
- 2] Some 'philosophy' - Why I choose and use QRP

So... If anyone wants to help me inspire beginners just a few words on your practical QRP results ...or why you do it would be very welcome

Lets try to capture some new M3s and othe non-QRPers.

72/3
George

Please reply to g3rjv@gqrp.com
[my ISP is g3rjv@gqrp.fsnet.co.uk]
George Dobbs G3RJV
The G QRP Club "It is vain to do with more
g3rjv@gqrp.com what can be done with less"
www.gqrp.com William of Occum

=== Via the mailing list of the GQRP Club www.gqrp.com ===

Your use of Yahoo! Groups is subject to <http://docs.yahoo.com/info/terms/>

Date: Fri, 19 Jul 2002 09:15:11 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <n5zgt@swcp.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130145] Re: FOX -- are we being legal here?
Message-ID: <20020719131643.SGGF28883.imf11bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/19/02 1:19 AM, Brian P. Milesosky at n5zgt@swcp.com wrote:

> As an Official Observer, here is my take on the rule: Plain and simple,
>ID every 10 minutes that you are on the air despite how many QSOs occur in
>that span.

Well, that's a reasonable interpretation of the rule. (I don't agree with
it, but it is reasonable)

However, after each DX contests, go read the contest reflector.
Invariably, someone will bitch about stations working a big pileup and
not signing but every 10 minutes (if that often). It's considered poor
operating technique.

Many of the very best contest operators manage to work stations at high
rates and sign frequently.

> Part 97 is explicit where it needs to be explicit, and it also leaves
>room for interpretation in places. As long as the operator uses his/her
>best judgment in interpreting them, everything should be fine.

I'll agree that the FCC is the final arbiter of interpretation of the

rule.

Instead I'll submit that not signing frequently is a poor operating technique.

> So keep on doing what you are doing. One of the great things about this
>group is that it is composed of people who really care for the preservation
>and advancement of the hobby and respect for the rules. I appreciate you
>and others asking questions rather than forging on with something that might
>cause problems later.

Right. I'm not passing judgement, I'm just raising the issue. Operators are free to interpret this as they will, and take action accordingly.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Fri, 19 Jul 2002 08:01:06 -0500
From: George Franklin <w0av@juno.com>
To: aa4lr@arrl.net
Cc: qrp-l@lehigh.edu
Subject: [130146] Re: QRPers (Some) Are Odd-balls
Message-ID: <20020719.081510.-1234227.1.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Bill,

I resemble that last remark!

72 de George/W0AV
Hamming since '35
COG#1, PITA#1, SOC#101
K2 #550, RA37627153, Shoe size 10.5B

Date: Fri, 19 Jul 2002 08:19:37 -0500
From: "Frank Emens" <femens@hiwaay.net>
To: qrp-l@lehigh.edu

Subject: [130147] Regulations
Message-ID: <3D37CB99.19238.1D9641@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

I don't have a current copy of the FCC regs concerning the Amateur Radio Service.
I
have a question that I'm sure can be answered here. Do the regs still say that we
should use no more power than that necessary to accomplish the desired
communication?

If it is still there, it has to be the most often violated rule in the book.

--

Frank Emens
femens@hiwaay.net

Date: Fri, 19 Jul 2002 09:21:16 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <geoiiii@kkn.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130148] Re: FOX -- are we being legal here?
Message-ID: <20020719132248.SKCI28883.imf11bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/19/02 8:33 AM, George Fremin III - K5TR at geoiiii@kkn.net wrote:

>It is possible to make 100+ QSOs an hour on CW and send your callsign
>during every contact. One example of this is the ARRL CW Sweepstakes
>even with it's long exchange - you send your callsign as part of the
>exchange along with alot of other information.

George, I'd expand on that -- it is possible to work far in excess of 100
QSOs per hour and sign each time, even with a long callsign. WN4KKN (now
N5K0) used to do it.

>If you would like to read what I consider to be the definitive
>statement on signing or not signing your callsign after
>every QSO in a contest you can find it here:
>
><http://lists.contesting.com/pipermail/cq-contest/1998-July/032599.html>

I do disagree with one assertion in this reference:

"2) By keeping some potential callers off balance until they know who you are, you may be able to reduce the size of an excessively large pile-up to a size where you can copy callsigns. "

A better technique for pileup control is to use CW speed. If the pileup is big, increase CW speed until it shrinks. If the pileup is too small, decrease speed until it grows.

I don't think either may be applicable for a fox hunt, because of the nature of the operating event.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
-- Wilbur Wright, 1901

Date: Fri, 19 Jul 2002 09:31:17 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [130149] Re: FOX -- are we being legal here?
Message-ID: <5.1.0.14.1.20020719091514.00a69b70@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:06 AM 7/19/2002 -0400, you wrote:

> >So your point should apply equally well to Hounds. Guess we are taking a
> >few too many shortcuts?
>
>I don't think so. If you look at the typical operation in contests, it is
>similar:
>
>(example is CQWW contest exchange)
>
>CQ TEST ON4UN
>AA4LR
>AA4LR 599 14
>R 599 5

Bill,

I think this exchange complies with the spirit of the regulation - each station has signed its own call, and the exchange was short enough to fit inside the 10-minute rule. While neither station IDed at the end of the "communication," both could claim that a listener could still know the identity of both stations.

I think the original point of this thread, though, is that the CQ isn't being sent before every exchange - the fox in this case was spooling off exchange after exchange and not pausing to ID. (Please correct me if I misunderstood.) If a calling station should happen to send his call (ON4UN DE WD8CIV), I personally don't think it counts as an ID. (The calling station could have mis-copied the call, after all.)

I believe the regulation requiring ID periodically and at the end of a communication is to allow FCC monitors to identify a station - not to suit our convenience as operators. We negotiate procedures and conventions among ourselves for that.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Fri, 19 Jul 2002 13:34:38 +0000
From: "Alan Fryer" <N3BJ@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [130150] N3BJ Fox Summary
Message-ID: <0E74jyXSz9qGFTS0aWr000002415@hotmail.com>

Great time, looks like I worked 74 hounds. The pileup was raging until 0244, then the iron curtain seemed to drop. Good signals until then. Don't know if there was a solar event or ran out the pile.... KG6CYN reported my sig at S9 in CA late in the hunt, but no takers. Check out hos website for the audio he recorded.

Worked some DX, but no 1st or 2nd district stations and only one 3rd district and one VE3. Details tonite.

Alan, N3BJ
Bent Mountain, VA

Date: Fri, 19 Jul 2002 09:36:22 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>

To: qrp-1@lehigh.edu
Subject: [130151] Re: Regulations
Message-ID: <5.1.0.14.1.20020719093446.00a74a20@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"; format=flowed
Content-Transfer-Encoding: quoted-printable

At 08:19 AM 7/19/2002 -0500, you wrote:

>I don't have a current copy of the FCC regs concerning the Amateur Radio=20
>Service. I
>have a question that I'm sure can be answered here. Do the regs still say=
=20
>that we
>should use no more power than that necessary to accomplish the desired
>communication?

Frank,

Yep:

=A797.313 Transmitter power standards.

(a) An amateur station must use the minimum transmitter power necessary to=
=20
carry out the desired communications.

(from <http://www.arrl.org/FandES/field/regulations/news/part97/>)

>If it is still there, it has to be the most often violated rule in the=
book.

I'll go along with that.

Dave

"You can fool some of the people all of the time. That's enough to make a=20
living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Fri, 19 Jul 2002 09:42:31 -0400

From: "Joe W2KJ" <w2kj@earthlink.net>
To: <tracy@bytemark.com>
Cc: "qrp-1" <qrp-1@lehigh.edu>
Subject: [130152] Re: Audio Trouble Shooting
Message-ID: <001601c22f2a\$224563e0\$6b34323f@cdcvh01>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Tracy Markham" <tracy@bytemark.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, July 19, 2002 1:48 AM
Subject: Re: Audio Trouble Shooting

> I thought I'd had enough of the '386 myself, but I have a box
full and
> no '380s ... and after this little experiment I'm impressed
with the little
> buggers.

Howdy Tracy:

I have several of the metal can 2N3053 and the collector is
indeed connected to the case.

The tab indicates the emitter lead as an earlier response to
your query indicated.

I have built the Progressive Receiver and additionally
converted it to a 20m transceiver.

I have always wanted to replace the product detector/audio amp
board with a NE602/612 product detector followed by a single
audio stage to a LM380 using the series FET mute switching
technique.

Guess it's one of those projects that takes time to get to.

Good luck with your receiver...it is a great performer with a
very strong front end.

73, Joe W2KJ

Date: Fri, 19 Jul 2002 09:46:48 -0400
From: "Walt Amos" <k8cv@netzero.net>
To: "Messages Qrp-L" <qrp-l@lehigh.edu>
Subject: [130153] FOX are we being legal here ?
Message-ID: <000d01c22f2a\$bb07d5e0\$60b83841@WALTK8CV>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Probably, but it is a pain in the beep beep ! Just giving your CALL on the turn around after each fox contact is as fast as QRZ or FOX or even DIT DIT.

The FP FOX does it are they BETTER TRAINED and setting an example ?

I think (and I don't do much of that) the fox hunt has gotten out of hand and become a CONTEST and we have a few hot dogs that are out for MAXIMUM contacts here :-)

I worked the truffle fox right away and also K0FRP but never even heard the N3BJ fox :-(

So this post may be just SOUR GRAPES :-)

Walt K8CV Royal Oak, MI

Introducing NetZero Long Distance
Unlimited Long Distance only \$29.95/ month!
Sign Up Today! www.netzerolongdistance.com

Date: Fri, 19 Jul 2002 07:55:40 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
 "cqcl-1" <CQCLIST@yahoogroups.com>,
Subject: [130154] NCARC Superfest 2002--Door Prizes
Message-ID: <00b801c22f2b\$f87e4840\$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Folks,

What's a hamfest with out door prizes? BORING!

SUPERFEST WILL BE ANYTHING BUT!! You all ready know the big four:

- 1 Yaesu FT-817
- 2 Small Wonder Labs PSK-20 Kit or assembled (not both ;-)
- 3 ACE-HF Pro Propagation Software
- 4 Arrow 146/440J-Pole

This has been on our website for sometime at:

<http://www.radioactivehams.com/superfest/prizes.html>

Now here is the rest of the story:

- o A Radio Shack Atomic Clock #63-973 donated by Radio Shack
- o An MFJ-107B 24 Hour LCD Clock
- o An MFJ-108B 24/12 Hour Dual LCD display clock
(both donated by HRO)
- o Arrow 2 meter walking Stick
- o 2 Radio Shack 5-Band omnidirectional scanner antennas
- o 2002/2003 Repeater guide
- o 3 2002 ARRL Handbooks
- o An ARRL Station Log
- o An MFJ-1722 144/440 Mag Mount
(repeater guide, manuals, log and antenna courtesy HRO and ARRL)
- o 2 or three parts grab bags donated by Radio Shack.

Your \$4 admission buys you one chance to win a prize. If one chance is not enough, you can buy as many door prize raffle tickets as you want, I'll have 4000 of them with me! ;-) (If we run out I know where I can buy more close buy)

The way I figure it we will be giving something away about every 10 or 15 minutes, on average.

Superfest is tomorrow, hope to see you there.

73, Rod NØRC

Date: Fri, 19 Jul 2002 10:13:14 -0400
From: W2AGN <w2agn@w2agn.net>
To: w0av@juno.com,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130155] Re: QRPers (Some) Are Odd-balls
Message-ID: <3D37E63A.20311.3BD36CC@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 19 Jul 2002 at 8:01, George Franklin wrote:

> Hi Bill,
>
> I resemble that last remark!
>
> 72 de George/W0AV
> Hamming since '35
> COG#1, PITA#1, SOC#101
> K2 #550, RA37627153, Shoe size 10.5B
>

Ahha! Great minds think alike!

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_ / _ / _ / _ / _ / ARCI, NJQRP, ARQrp, GQRP, RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS Shoe size 13A, Boxers not briefs

Date: Fri, 19 Jul 2002 10:17:18 -0400
From: Hank Kohl K8DD <k8dd@arrl.net>
To: aa4lr@arrl.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130156] Re: FOX -- are we being legal here?

Message-ID: <5.1.0.14.2.20020719101331.01d3fe10@mail.arenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 7/19/02 09:21 AM -0400, Bill Coleman wrote:

>A better technique for pileup control is to use CW speed. If the pileup
>is big, increase CW speed until it shrinks. If the pileup is too small,
>decrease speed until it grows.

Maybe in a BTTW pileup power may be a more effective control. Lower
power can cause some of the second tier and most of the third + tier
stations to go away.

>I don't think either may be applicable for a fox hunt, because of the
>nature of the operating event.

Agreed - besides Allen in VA was probably N3BJ and not K0FRP.

73 Hank K8DD

Date: Fri, 19 Jul 2002 07:32:01 -0700 (PDT)
From: Gary Slagel <gds slagel@yahoo.com>
To: QRP L <qrp-l@lehigh.edu>
Cc: Keith Doughty <kdoughty@gwtc.net>
Subject: [130157] Operating from Colorado Trail this weekend
Message-ID: <20020719143201.13096.qmail@web11602.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I'll be hiking segment #9 of the Colorado Trail this
weekend, about 13 miles from Tennessee Pass to Lake
Fork (near Leadville, CO). Elevation varies from
10040' to 11480'.

I'll be operating for 2 or 3 hours tonight (July 19)
and tomorrow night. Probably be between 6 and 10 pm
mountain daylight time using my k1 and 83' wire. I'll
be on 20 meters mostly with some 40 meters later in
the evening around the qrp frequencies.

As usual, I'll have some pics and my logs out on my
website shortly after I return. Hope to see a few of
you... always fun to work the qrp1 guys!

73, Gary

=====

Gary Slagel/N0SXX
Conifer, CO 80433
gdslagel@yahoo.com
Personal Website: <http://members.fortunecity.com/gdslagel>

Do You Yahoo!?
Yahoo! Autos - Get free new car price quotes
<http://autos.yahoo.com>

Date: Fri, 19 Jul 2002 16:37:27 +0200
From: "Ingo Meyer, DK3RED" <dk3red@t-online.de>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [130158] Re: QQ article (OHR WM-1) TNX
Message-ID: <3D382427.714EB123@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Pat,

> It's at <http://www.qrparci.org/east/east.htm> and it works very well indeed.
>
> Hope this helps.

Yes, great! TNX AGN.

--

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de <http://www.t-online.de/~dk3red>
DL-QRP-AG #824 <http://www.dl-qrp-ag.de>

Date: Fri, 19 Jul 2002 10:41:41 -0400
From: "Mullin, Edward J." <mulline@tycoelectronics.com>
To: "'QRP'" <qrp-1@lehigh.edu>
Subject: [130159] Re: Experiment of reproducible results PART II
Message-ID: <F1C60F6146F4DF4B902254ECAC17271D6A04F4@us358mx00>
MIME-Version: 1.0
Content-Type: text/plain

Ok, perhaps this is beating a dead horse? but here is some actual measurements of the quantities in question.

This is what I have so far:

I used an MFJ 949E tuner, it is a tapped inductor type. Freq. used was 7.040 MHz, for matching and a band of 7.0-7.15 MHz for swr.

Losses were measured across the band and were very small WHEN it was tuned to match. Measured losses were -0.3dB Fwd(transmit) and -0.2dB Rev(receive), which is comparable to some connectors that I have evaluated. When the unit was not tuned losses got worse, which makes sense. (Worst case loss I could induce was -22 dB or so.)

The SWR when tuned looking forwards(xmitter into tuner) had a pretty good band width, where swr was 2.0:1 or less. But when I looked at the SWR from the reverse (antenna end looking into the tuner) things were not so good. Several large spikes(>10:1SWR) at various points across the band! In fact, the frequency of interest was actually in a "notch" about 15kHz wide or so. Adjusting the tuner controls moved some but not all the spikes around. Interesting.

Ok now for the matching issues. I used a single frequency measurement at 7.04MHz

I constructed a non-resonant load, which initially plotted on the chart at $2.90\Omega + j45$ which showed an swr $\gg 15:1$. The best swr I could achieve through the tuner was $\sim 1.8:1$ at this point the tuner showed $37.7 + j7.6$ when I measured the reverse I found $42 + j7.8$, :(I expected a more obvious conjugate value.

Could difference could be due to the fact that I was not able to get a perfect match?? I am going to construct a more reasonable load and repeat this measurement to see what happens.

I have been learning quite a bit from all this.

73's to all

KB1HYS

> Ed Mullin

>

Date: Fri, 19 Jul 2002 07:40:54 -0700
From: Timothy-Allen Albertson-KG6IRH <kg6irh@pacbell.net>
To: femens@hiwaay.net
Cc: qrp-l@lehigh.edu
Subject: [130160] Re: Regulations
Message-ID: <0a5f01c22f32\$49d102e0\$dc18a140@computer>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Yes, I can not recall the exact cite. It would also be covered under the reg requiring adherence to good amateur practice. 73 de tim kg6irh.

----- Original Message -----

From: "Frank Emens" <femens@hiwaay.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, July 19, 2002 6:19 AM
Subject: Regulations

> I don't have a current copy of the FCC regs concerning the Amateur Radio Service. I
> have a question that I'm sure can be answered here. Do the regs still say that we
> should use no more power than that necessary to accomplish the desired communication?
>
> If it is still there, it has to be the most often violated rule in the book.
> --
> Frank Emens
> femens@hiwaay.net
>

Date: Fri, 19 Jul 2002 14:48:16 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: RDavis24@carolina.rr.com
Cc: qrp-l@lehigh.edu
Subject: [130161] Re: Oscope questions from a true beginner?
Message-ID: <F182w0IDT8zAJ95sZKx00000e6b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Ronald Davis (RDavis24@carolina.rr.com) writes:

>Hello
>I just bought my first Oscope, and its a Tek 465M. I would like to do some
>basic checks to make sure all is ok and learn how to use it. I remember
>seeing a scope tutorial on here sometime in the past, does anyone know
>where
>to find this? Remember, I have never used one before and im a complete
>beginner hi. I am building a little shop here to work on rigs and always
>wanted a scope, but I bought one without doing a lot of checking. If anyone
>can give me a good hint of how to check it out and do some basic
>measurements, I would really appreciate it. Thanks and sorry for the dumb
>question, but remember we all had to start somewhere.
>Thanks
>Ronnie
>ke4vpn

Ronnie,

Just thought that it is worth mentioning; if you ever need parts, manuals,
advice on repair and use of Tektronix scopes (or other vintage items
Tektronix), &c., a great resource is the forum at Bill & Stan's site:

<http://www.reprise.com/host/tektronix/forum/default.asp>

Lot's of helpful people there.

Regards,

Brad KG6IOE

"I think, therefore I homebrew"

Chat with friends online, try MSN Messenger: <http://messenger.msn.com>

Date: Fri, 19 Jul 2002 10:21:38 -0500
From: George Franklin <w0av@juno.com>
To: w2agn@w2agn.net
Cc: qrp-l@lehigh.edu
Subject: [130162] Re: QRPers (Some) Are Odd-balls

Message-ID: <20020719.102418.-1431791.0.w0av@juno.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hello John,

Ain't that the truth!!!

72 de George/W0AV

You know all the stuff I usually put here

Date: Fri, 19 Jul 2002 11:48:38 -0400

From: W2AGN <w2agn@w2agn.net>

To: abuse@caramail.com, abuse@lycos.fr, abuse@mobile-fr.st1.spray.net,
eze.udu@caramail.com, postmaster@caramail.com,

Subject: [130163] Offence under US code Title 47, Sec 227(b) (1) (C)

Message-ID: <3D37FC96.10835.414950D@localhost>

MIME-version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Content-description: Mail message body

Offence under US code Title 47, Sec 227(b) (1) (C)

I have recently received UNSOLICITED and UNWANTED junk e-mail from an individual who appears to be using your site. A copy of that mail is attached herewith. Junk Mail is now regarded as the same as unwanted and unsolicited junk faxes and telemarketing calls - all of which are now ILLEGAL under US federal law:

By US Code Title 47, Sec.227(a)(2)(B), a computer/modem/printer meets the definition of a telephone fax machine. By Sec.227(b) (1)(C), it is unlawful to send any unsolicited advertisement to such equipment, punishable by action to recover actual monetary loss, or \$500, whichever is greater, for EACH violation.

Please ensure this is stopped NOW. You have been put on notice. If you confirm to me promptly that effective action has been taken against those persons responsible, I will not take the matter further on this occasion.

If you do not provide me with such confirmation in a timely manner, or if ANY further UNSOLICITED or UNWANTED junk mail should be received from your site, I will instruct my attorney to issue a writ WITHOUT FURTHER NOTICE, and the matter will then be pursued under federal law. I will separately notify your upstream providers as they may also be liable for violations

originating from your site.

```
--- Copy of offending material follows ---
> Return-path: <eze.udu@caramail.com>
> Received: from bright07.icomcast.net (bright07-qfe0.icomcast.net [172.20.4.64])
>   by msgstore04.icomcast.net
>   (iPlanet Messaging Server 5.1 HotFix 0.8 (built May 13 2002))
>   with ESMTP id <0GZIO01AY4CQJ9@msgstore04.icomcast.net> for
>   jsielke513273@ims-ms-daemon (ORCPT jsielke513273@comcast.net); Fri,
>   19 Jul 2002 11:00:26 -0400 (EDT)
> Received: from mtain04 (bright-LB.icomcast.net [172.20.3.155])
>   by bright07.icomcast.net (8.11.6/8.11.6) with ESMTP id g6JF00729176
>   for
>   <@msgstore04.icomcast.net:jsielke513273@comcast.net>; Fri,
>   19 Jul 2002 11:00:24 -0400 (EDT)
> Received: from cali-3.pobox.com (cali-3.pobox.com [64.71.166.116])
>   by mtain04.icomcast.net
>   (iPlanet Messaging Server 5.1 HotFix 0.8 (built May 13 2002))
>   with ESMTP id <0GZIO0H3N4C7UM@mtain04.icomcast.net> for
>   jsielke513273@comcast.net (ORCPT jsielke513273@comcast.net); Fri,
>   19 Jul 2002 11:00:07 -0400 (EDT)
> Received: from cali-3.pobox.com (localhost.localdomain [127.0.0.1])
>   by cali-3.pobox.com (Postfix) with ESMTP id D241B3E6B5
>   for
>   <jsielke513273@comcast.net>; Fri, 19 Jul 2002 11:00:06 -0400 (EDT)
> Received: from mail1.caramail.com (mail1.caramail.com [213.193.13.92])
>   by cali-3.pobox.com (Postfix) with ESMTP id 598E43E918
>   for <w2agn@pobox.com>;
>   Fri, 19 Jul 2002 10:59:49 -0400 (EDT)
> Received: from caramail.com (www15.caramail.com [213.193.13.25])
>   by mail1.caramail.com (8.8.8/8.8.8) with SMTP id QAA21872; Fri,
>   19 Jul 2002 16:53:06 +0200 (DST)
> Date: Fri, 19 Jul 2002 16:53:01 +0000
> From: eze udu <eze.udu@caramail.com>
> Subject: HIGHLY CONFIDENTIAL
> X-Originating-IP: [64.110.146.120]
> To: eze.udu@caramail.com
> Message-id: <1027090381000663@caramail.com>
> MIME-version: 1.0
> X-Mailer: Caramail - www.caramail.com
> Content-type: multipart/mixed;
>   boundary="=_NextPart_Caramail_0006631027090381_ID"
> Delivered-to: w2agn@pobox.com
> Posted-Date: Fri, 19 Jul 2002 16:53:06 +0200 (DST)
> X-PMFLAGS: 570949760 0 1 P27890.CNM
>
```

> This message is in MIME format. Since your mail reader does not understand
> this format, some or all of this message may not be legible.

>

> --=_NextPart_Caramail_0006631027090381_ID
> Content-Type: text/plain; charset="us-ascii"
> Content-Transfer-Encoding: 7bit

>

> AUDIT AND ACCOUNTS UNIT,
> > FOREIGN REMITTANCE DEPT.,
> > ECOBANK-INTL
> > B.P 359
> > REPUBLIC OF COTE D'IVOIRE,
> > WEST AFRICA.
> > TELE:00 225.07-91-42-01.

> >

> > ATTN:SIR,

> >

> >

> >

> > WITH DUE HONOUR AND RESPECT,I AM DR.EZEUDU EZE,THE

> >

> > DIRECTOR IN CHARGE OF AUDIT AND ACCOUNTS UNIT,FOREIGN
> > REMITTANCE DEPT.OF ECOBANK INTERNATIONAL HERE IN
> > REPUBLIC OF COTE D'IVOIRE IN WEST AFRICA.

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> > KOFFI AND I DECIDED TO CONTACT YOU FOR BENEFICIAL AND
> > A 100% RISK-FREE BUSINESS TRANSACTION.

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> > DEPARTMENT CAME ACROSS THE SUM OF FOURTEEN MILLION
> > UNITED STATES DOLLARS(US\$14,000,000)ONLY BELONGING TO
> > AN INTERNATIONAL BUSINESSMAN WHO DIED ALONG WITH HIS
> > NEXT OF KIN IN THE 5TH NOVEMBER,1997 AEROPLANE CRASH
> > IN
> > ABIDJAN IN WEST AFRICA.

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> > BEFORE OUR DISCOVERY TO THIS DEVELOPMENT,THERE WAS NO
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> > DORMANT IN HIS ACCOUNT WITH THIS BANK.

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> > ALTHOUGH,WE KEEP THIS INFORMATION SECRET WITHIN OUR
> > JURISDICTION TO ENABLE US PUT CLAIMS AND TRANSFER THE

> > SAID AMOUNT THROUGH A TRUSTWORTHY FRIEND OVERSEAS WHOM
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> > ON CONCLUSION OF THIS TRANSACTION,YOU WILL BE ENTITLED
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> > TO 25% OF THE TOTAL SUM AS GRATIFICATION.5% OF THE
> > TOTAL SUM WILL BE USED TO REINBURSE EXPENSES THAT
> > MIGHT ARISE FROM TELEPHONE BILLS AND OTHER EXPENSES
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> > PARTNERS HERE.
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> > PLEASE YOU HAVE BEEN ADVISED TO KEEP TOP SECRET AS WE
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> > THEN COME DOWN TO YOUR COUNTRY FOR SUBSEQUENT SHARING
> > OF THE FUND ACCORDING TO THE PERCENTAGES PREVIOUSLY

> > INDICATED AND FOR INVESTMENT IN ANY COUNTRY YOU MAY
> ADVICE US TOO.
> ALL OTHER NECESSARY INFORMATION WILL BE SENT TO YOU
> WHEN I HEAR FROM YOU.
> >
> I SUGGEST YOU GET BACK TO ME AS SOON AS POSSIBLE
> > STATING YOUR WISH IN THIS DEAL.
> >
> > YOURS FAITHFULLY,
> > DR.EZEUDU EZE.
> -----
> Envoyez des messages musicaux sur le portable de vos amis
> http://mobile.lycos.fr/mobile/local/sms_musicaux/
>
>
> --=_NextPart_Caramail_0006631027090381_ID--

Date: Fri, 19 Jul 2002 10:01:46 -0600
From: "Mike Mellinger WA0SXV" <wa0sxv@mellinger.com>
To: <qrp-1@lehigh.edu>
Subject: [130164] RE: Offence under US code Title 47, Sec 227(b) (1) (C)
Message-ID: <507A236EF18F804F8E696F22F0CB670C13DD98@DAVANDY-SRVR.davandy.com>

Thanks. We needed that.

Mike WA0SXV

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf
Of W2AGN
Sent: Friday, July 19, 2002 09:49
To: Low Power Amateur Radio Discussion
Subject: Offence under US code Title 47, Sec 227(b) (1) (C)

Offence under US code Title 47, Sec 227(b) (1) (C)
I have recently received UNSOLICITED and UNWANTED junk e-mail from an
individual who appears to be using your site. A copy of that mail is
attached herewith. Junk Mail is now regarded as the same as unwanted
and unsolicited junk faxes and telemarketing calls - all of which are
now ILLEGAL under US federal law:

By US Code Title 47, Sec.227(a)(2)(B), a computer/modem/printer
meets the definition of a telephone fax machine. By Sec.227(b)
(1)(C), it is unlawful to send any unsolicited advertisement to

such equipment, punishable by action to recover actual monetary loss, or \$500, whichever is greater, for EACH violation.

Please ensure this is stopped NOW. You have been put on notice. If you confirm to me promptly that effective action has been taken against those persons responsible, I will not take the matter further on this occasion.

If you do not provide me with such confirmation in a timely manner, or if ANY further UNSOLICITED or UNWANTED junk mail should be received from your site, I will instruct my attorney to issue a writ WITHOUT FURTHER NOTICE, and the matter will then be pursued under federal law. I will separately notify your upstream providers as they may also be liable for violations originating from your site.

--- Copy of offending material follows ---
> Return-path: <eze.udu@caramail.com>
> Received: from bright07.icomcast.net (bright07-qfe0.icomcast.net [172.20.4.64])
> by msgstore04.icomcast.net
> (iPlanet Messaging Server 5.1 HotFix 0.8 (built May 13 2002))
> with ESMTP id <0GZI001AY4CQJ9@msgstore04.icomcast.net> for
> jsielke513273@ims-ms-daemon (ORCPT jsielke513273@comcast.net); Fri,
> 19 Jul 2002 11:00:26 -0400 (EDT)
> Received: from mtain04 (bright-LB.icomcast.net [172.20.3.155])
> by bright07.icomcast.net (8.11.6/8.11.6) with ESMTP id
g6JF00729176 for
> <@msgstore04.icomcast.net:jsielke513273@comcast.net>; Fri,
> 19 Jul 2002 11:00:24 -0400 (EDT)
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> by mtain04.icomcast.net
> (iPlanet Messaging Server 5.1 HotFix 0.8 (built May 13 2002))
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for
> <jsielke513273@comcast.net>; Fri, 19 Jul 2002 11:00:06 -0400 (EDT)
> Received: from mail1.caramail.com (mail1.caramail.com [213.193.13.92])
> by cali-3.pobox.com (Postfix) with ESMTP id 598E43E918

for
<w2agn@pobox.com>;
> Fri, 19 Jul 2002 10:59:49 -0400 (EDT)
> Received: from caramail.com (www15.caramail.com [213.193.13.25])
> by mail1.caramail.com (8.8.8/8.8.8) with SMTP id QAA21872; Fri,
> 19 Jul 2002 16:53:06 +0200 (DST)
> Date: Fri, 19 Jul 2002 16:53:01 +0000
> From: eze udu <eze.udu@caramail.com>
> Subject: HIGHLY CONFIDENTIAL
> X-Originating-IP: [64.110.146.120]
> To: eze.udu@caramail.com
> Message-id: <1027090381000663@caramail.com>
> MIME-version: 1.0
> X-Mailer: Caramail - www.caramail.com
> Content-type: multipart/mixed;
> boundary="=_NextPart_Caramail_0006631027090381_ID"
> Delivered-to: w2agn@pobox.com
> Posted-Date: Fri, 19 Jul 2002 16:53:06 +0200 (DST)
> X-PMFLAGS: 570949760 0 1 P27890.CNM
>
> This message is in MIME format. Since your mail reader does not
understand
> this format, some or all of this message may not be legible.
>
> --=_NextPart_Caramail_0006631027090381_ID
> Content-Type: text/plain; charset="us-ascii"
> Content-Transfer-Encoding: 7bit
>
> AUDIT AND ACCOUNTS UNIT,
> > FOREIGN REMITTANCE DEPT.,
> > ECOBANK-INTL
> > B.P 359
> > REPUBLIC OF COTE D'IVOIRE,
> > WEST AFRICA.
> > TELE:00 225.07-91-42-01.
> >
> > ATTN:SIR,
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> > WITH DUE HONOUR AND RESPECT,I AM DR.EZEUDU EZE,THE
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> > DIRECTOR IN CHARGE OF AUDIT AND ACCOUNTS UNIT,FOREIGN
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> > YOURS FAITHFULLY,
> > DR. EZEUDU EZE.
>
> -----
> Envoyez des messages musicaux sur le portable de vos amis
> http://mobile.lycos.fr/mobile/local/sms_musicaux/
>
>
> --=_NextPart_Caramail_0006631027090381_ID--

Date: Fri, 19 Jul 2002 12:13:27 -0400
From: W2AGN <w2agn@w2agn.net>
To: wa0sxv@mellinger.com,
Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [130165] RE: Offence - 00PS!
Message-ID: <3D380267.1881.42B4F1E@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 19 Jul 2002 at 10:01, Mike Mellinger WA0SXV wrote:

> Thanks. We needed that.
>
> Mike WA0SXV

Sorry, gang, I was sending that to the postmasters, etc., and to uce@ftc.gov. Accidentally pasted the QRP-L address, and didn't see it.

Big boo-boo, sorry. 20 lashes with a wet (conjugate matched) dipole.

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_ / _ / _ / _ / _ / ARCI, NJQRP, ARQrp, GQRP, RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Fri, 19 Jul 2002 09:14:25 -0700
From: Mark Schoonover <schoon@amgt.com>
To: "'w2agn@w2agn.net'" <w2agn@w2agn.net>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130166] RE: Offence under US code Title 47, Sec 227(b) (1) (C)
Message-ID: <BF889CEBEFD2D511B993009027F60ABE25166F@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Good luck chasing this one down. It's probably one of the longest 'urban legends' on the net...

.mark

> -----Original Message-----
> From: W2AGN [mailto:w2agn@w2agn.net]
> Sent: Friday, July 19, 2002 8:49 AM
> To: Low Power Amateur Radio Discussion

> Subject: Offence under US code Title 47, Sec 227(b) (1) (C)
>
>
>
> Offence under US code Title 47, Sec 227(b) (1) (C)
> I have recently received UNSOLICITED and UNWANTED junk e-mail from an
> individual who appears to be using your site. A copy of that mail is
> attached herewith. Junk Mail is now regarded as the same as unwanted
> and unsolicited junk faxes and telemarketing calls - all of which are
> now ILLEGAL under US federal law:
>
> By US Code Title 47, Sec.227(a)(2)(B), a computer/modem/printer
> meets the definition of a telephone fax machine. By Sec.227(b)
> (1)(C), it is unlawful to send any unsolicited advertisement to
> such equipment, punishable by action to recover actual monetary
> loss, or \$500, whichever is greater, for EACH violation.
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> Please ensure this is stopped NOW. You have been put on
> notice. If you
> confirm to me promptly that effective action has been taken
> against those
> persons responsible, I will not take the matter further on
> this occasion.
>
> If you do not provide me with such confirmation in a timely
> manner, or if
> ANY further UNSOLICITED or UNWANTED junk mail should be
> received from your
> site, I will instruct my attorney to issue a writ WITHOUT
> FURTHER NOTICE,
> and the matter will then be pursued under federal law. I
> will separately
> notify your upstream providers as they may also be liable for
> violations
> originating from your site.
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>
>
> --- Copy of offending material follows ---
> > Return-path: <eze.udu@caramail.com>
> > Received: from bright07.icomcast.net
> (bright07-qfe0.icomcast.net [172.20.4.64])
> > by msgstore04.icomcast.net
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> > with ESMTP id <0GZI001AY4CQJ9@msgstore04.icomcast.net> for
> > jsielke513273@ims-ms-daemon (ORCPT jsielke513273@comcast.net); Fri,
> > 19 Jul 2002 11:00:26 -0400 (EDT)
> > Received: from mtain04 (bright-LB.icomcast.net [172.20.3.155])


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> > by bright07.icomcast.net (8.11.6/8.11.6) with ESMTP id
> g6JF00729176 for
> > <msgstore04.icomcast.net:jsielke513273@comcast.net>; Fri,
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> > 19 Jul 2002 11:00:07 -0400 (EDT)
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> > by cali-3.pobox.com (Postfix) with ESMTP id D241B3E6B5
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> > <jsielke513273@comcast.net>; Fri, 19 Jul 2002 11:00:06 -0400 (EDT)
> > Received: from mail1.caramail.com (mail1.caramail.com
> [213.193.13.92])
> > by cali-3.pobox.com (Postfix) with ESMTP id 598E43E918

> for <w2agn@pobox.com>;
> > Fri, 19 Jul 2002 10:59:49 -0400 (EDT)
> > Received: from caramail.com (www15.caramail.com [213.193.13.25])
> > by mail1.caramail.com (8.8.8/8.8.8) with SMTP id QAA21872; Fri,
> > 19 Jul 2002 16:53:06 +0200 (DST)
> > Date: Fri, 19 Jul 2002 16:53:01 +0000
> > From: eze udu <eze.udu@caramail.com>
> > Subject: HIGHLY CONFIDENTIAL
> > X-Originating-IP: [64.110.146.120]
> > To: eze.udu@caramail.com
> > Message-id: <1027090381000663@caramail.com>
> > MIME-version: 1.0
> > X-Mailer: Caramail - www.caramail.com
> > Content-type: multipart/mixed;
> > boundary="=_NextPart_Caramail_0006631027090381_ID"
> > Delivered-to: w2agn@pobox.com
> > Posted-Date: Fri, 19 Jul 2002 16:53:06 +0200 (DST)
> > X-PMFLAGS: 570949760 0 1 P27890.CNM
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> > --=_NextPart_Caramail_0006631027090381_ID
> > Content-Type: text/plain; charset="us-ascii"
> > Content-Transfer-Encoding: 7bit
> >
> > AUDIT AND ACCOUNTS UNIT,
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> > > ECOBANK-INTL

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> > > B.P 359
> > > REPUBLIC OF COTE D'IVOIRE,
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> > > TELE:00 225.07-91-42-01.
> > >
> > > ATTN:SIR,
> > >
> > >
> > >
> > > WITH DUE HONOUR AND RESPECT,I AM DR.EZEUDU EZE,THE
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> > > DIRECTOR IN CHARGE OF AUDIT AND ACCOUNTS UNIT,FOREIGN
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> > > E-MAIL ADDRESS FROM THE NUMEROUS LIST WITH A
> > > COTE D'IVOIRE BUSINESS CONSULTANT WHO WORKS WITH THE
> > > COTE D'IVOIRE CHAMBER OF COMMERCE AND INDUSTRY,ELDER
> > > JOHN
> > > KOFFI AND I DECIDED TO CONTACT YOU FOR BENEFICIAL AND
> > > A 100% RISK-FREE BUSINESS TRANSACTION.
> > >
> > > DURING OUR AUDITING AND INVESTIGATIONS IN THIS BANK,MY
> > >
> > > DEPARTMENT CAME ACROSS THE SUM OF FOURTEEN MILLION
> > > UNITED STATES DOLLARS(US\$14,000,000)ONLY BELONGING TO
> > > AN INTERNATIONAL BUSINESSMAN WHO DIED ALONG WITH HIS
> > > NEXT OF KIN IN THE 5TH NOVEMBER,1997 AEROPLANE CRASH
> > > IN
> > > ABIDJAN IN WEST AFRICA.
> > >
> > > BEFORE OUR DISCOVERY TO THIS DEVELOPMENT,THERE WAS NO
> > > TRACE OF CLAIM FROM ANY PERSON AS THE FUND REMAINS
> > > DORMANT IN HIS ACCOUNT WITH THIS BANK.
> > >
> > > ALTHOUGH,WE KEEP THIS INFORMATION SECRET WITHIN OUR
> > > JURISDICTION TO ENABLE US PUT CLAIMS AND TRANSFER THE
> > > SAID AMOUNT THROUGH A TRUSTWORTHY FRIEND OVERSEAS WHOM
> > >
> > > WE SHALL PRESENT TO THE BANK AS THE BONAFAIDE
> > > NEXT-OF-KIN TO THE DECEASED FOR A PROFITABLE AND
> > > SUCCESSFUL DEAL.
> > >
> > > INFAC,WE COULD HAVE DONE THIS DEAL ALONE BUT BECAUSE
> > > WE CIVIL SERVANTS ARE NOT LEGALLY ALLOWED TO OPERATE
> > > FOREIGN ACCOUNT.AND IT WOULD EVENTUALLY RAISE EYE
> > > BROWS ON OUR SIDE DURING THE TIME OF TRANSFER ,BECAUSE

> > >
> > > WE ARE STAFF OF THE BANK.THESE ARE THE ACTUAL REASONS
> > > WE
> > > CONTACT YOU AS FOREIGN PARTNER WHO WILL FORWARD CLAIMS
> > >
> > > BY OUR DIRECTIVES AS THE BONAFIDE NEXT-OF-KIN WITH
> > > IVOIRIEAN COURT AFFIDAVIT OF CLAIM TO THE BANK AND
> > > ALSO PRESENT A FOREIGN BANK ACCOUNT WHERE THE MONEY
> > > WILL BE RE-TRANSFERED INTO.
> > >
> > > MEANWHILE,ALL THE ARRANGEMENT TO PUT CLAIMS AS THE
> > > BONAFIDE NEXT-OF-KIN TO THE DECEASED,TO GET THE
> > > REQUIRED APPROVAL AND TRANSFER OF THIS MONEY TO A
> > > FOREIGN ACCOUNT HAS BEEN PUT IN PLACE.THE DIRECTIVES
> > > AND THE NEEDED INFORMATION WILL BE RELAYED TO YOU AS
> > > SOON AS YOU INDICATE YOUR INTEREST AND WILLINGNESS TO
> > > BENEFIT YOURSELF FROM THIS GREAT BUSINESS OPPORTUNITY.
> > >
> > >
> > >
> > > ON CONCLUSION OF THIS TRANSACTION,YOU WILL BE ENTITLED
> > >
> > > TO 25% OF THE TOTAL SUM AS GRATIFICATION.5% OF THE
> > > TOTAL SUM WILL BE USED TO REINBURSE EXPENSES THAT
> > > MIGHT ARISE FROM TELEPHONE BILLS AND OTHER EXPENSES
> > > DURING THE TRANSACTION,WHILE 70% WILL BE FOR ME AND MY
> > >
> > > PARTNERS HERE.
> > >
> > > PLEASE YOU HAVE BEEN ADVICED TO KEEP TOP SECRET AS WE
> > > ARE STILL IN SERVICE AND INTEND TO RETIRE FROM SERVICE
> > >
> > > AFTER WE CONCLUDE THIS DEAL WITH YOU.
> > >
> > > I WILL BE MONITORING THE WHOLE SITUATION HERE IN THIS
> > > BANK UNTIL YOU CONFIRM THE MONEY IN YOUR ACCOUNT.WE
> > > THEN COME DOWN TO YOUR COUNTRY FOR SUBSEQUENT SHARING
> > > OF THE FUND ACCORDING TO THE PERCENTAGES PREVIOUSLY
> > > INDICATED AND FOR INVESTMENT IN ANY COUNTRY YOU MAY
> > > ADVISE US TOO.
> > > ALL OTHER NECESSARY INFORMATION WILL BE SENT TO YOU
> > > WHEN I HEAR FROM YOU.
> > >
> > > I SUGGEST YOU GET BACK TO ME AS SOON AS POSSIBLE
> > > STATING YOUR WISH IN THIS DEAL.
> > >
> > > YOURS FAITHFULLY,
> > > DR.EZEUDU EZE.

> > -----
> > Envoyez des messages musicaux sur le portable de vos amis
> > http://mobile.lycos.fr/mobile/local/sms_musicaux/
> >
> >
> > ---_NextPart_Caramail_0006631027090381_ID--
>
>

Date: Fri, 19 Jul 2002 11:16:09 -0500
From: "George, W5YR" <w5yr@att.net>
To: mulline@tycoelectronics.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130167] Re: Experiment of reproducible results PART II
Message-ID: <3D383B49.D5BA2DE5@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ed, I started to respond by asking several questions and making some attempts at explaining your results, but I just don't have enough info about what you did, how you did it, and with what equipment. So rather than burden the list with a lot of questions let me just ask you to send me - or the list if you think there is general interest - a detailed step-by-step procedure and equipment list, etc. I am very interested in your tests and would like an opportunity to examine the results and possibly help in their interpretation.

No, you are not beating a dead horse. Everyone on this reflector uses antennas and transmission lines and the majority of us use tuners. We do not *have* to understand much of anything about our radios and stations in order to get licensed and operate them, but it seems to me that the more we know and understand about our equipment the more we stand apart from the Good Buddy operators.

This is not a gripe about folks who choose to just buy a rig, hook it up, turn it on and operate - that is a fine area of ham radio that accomplishes many of the goals for the Amateur Service. For those who want to go a little further, though, guys like me use your bandwidth and the time of us both trying to understand and explain what is happening in these systems. There is always the DEL key for those who feel they and/or we have gone far enough! <:}

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

If

"Mullin, Edward J." wrote:

>

> Ok, perhaps this is beating a dead horse? but here is some actual
> measurements of the quantities in question.

Date: Fri, 19 Jul 2002 10:27:17 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Bill Coleman <aa4lr@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130168] RE: Experiment of reproducible results PART II
Message-ID: <Pine.LNX.4.44.0207191025330.2472-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

You may be right Bill. I am not defending the MFJ tuners, just
measuring them. And yes the coax connectors also add to the loss.

On Thu, 18 Jul 2002, Bill Coleman wrote:

> On 7/18/02 7:31 AM, Karl F. Larsen at k5di@zianet.com wrote:

>

> >> Poppycock! Well-designed and properly adjusted tuners have negligible
> >> loss.

> >>

> > Please go to my web page at www.zianet.com/k5di/ and look at my
> > measurements of a MFJ T tuner. It HAS loss.

>

> I don't think the MFJ tuner in question meets the "well-designed"
> criteria. I had a similar MFJ tuner, and realised that the top and bottom
> panels acted as shorted turns on both ends of the inductor. (the inductor
> was about 2 mm from each panel).

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Fri, 19 Jul 2002 10:32:13 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [130169] My final on Conjugate
Message-ID: <Pine.LNX.4.44.0207191031130.2472-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well the truth is out. Mr. Zack Lau, W1VT wrote a paper I got off the ARRL web page wherein he said "This conjugate theorem has provoked quite a bit of controversy in Amateur circles in recent years. I think it might be useful for advanced amateurs to see a mathematical proof. A good proof often adds to ones understanding of concepts."

He then defines the problem and shows a diagram of it and has a conformal map of the solution. After defining terms he uses differentiation to find the function that solves the problem as defined.

The transmitter is a voltage source in series with a resistor R and some reactance jx connected to a load that is $R(L)$ in series with $-jx$. The problem is to maximize the power transferred from the transmitter to the load $R(L)$.

He does this with a set of differentiations and talks about doing the second differential to be sure that the proper solution is found. But this problem is clear and the result is correct mathematically.

Mr. Lau goes on to say after the solution "Thus, we have proved that if the source impedance is $R + jX$, the load impedance that results in maximum power transfer is $R - jX$. Thus the optimum load impedance is the complex conjugate of the source impedance."

Then I read the paper by Byron Goodman, W1DX (nice call) "My Feed Line Tunes My Antenna!" QST March 1956 and the title is sure misleading. The article is very good with clear words and no math to speak of. In summary Byron says that since only resistance dissipates power, reactance can't and so reactance is not a bad thing. If you have a feed line with low loss then you can use a non-resonant antenna that will cause high standing waves on the feed line with small losses. You will need a tuner to match the feed line end impedance to your radio. Byron doesn't once mention conjugate matching, which is a good thing.

I have both papers in .pdf format and they are not too large (3 pages for each paper). I will send a copy to anyone who wants them, or, if your an ARRL member you can download them from the ARRL web site.

In summary, I say with complete proof that conjugate matching is of no interest to any Ham using a tuner between the radio and the feed line. If your trying to feed a balanced feed line direct from your radio then your interested in this theorem.

The idea that you can use a open wire feed line with very low loss to feed a non-resonant antenna is real and is in common use today by many Hams including me. There is nothing in this idea that has anything to do with conjugate matching. I and everyone in this discussion so far is using a radio with a $50 + jx$ input impedance. The TUNER provides the radio with a $50 - jx$ load when tuned up properly. This yields maximum power transfer to the feed-line, and after a little loss, to the antenna.

Any idea that the TUNER makes the feed line resonant is false. Any idea that the feed-line radiates power is correct. Any idea that the feed line transfers power to the antenna is correct, even if the antenna is not resonant.

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Fri, 19 Jul 2002 12:29:38 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: "Karl F. Larsen" <k5di@zianet.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130170] RE: Experiment of reproducible results PART II
Message-ID: <20020719163110.YZKG1218.imf13bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/19/02 12:27 PM, Karl F. Larsen at k5di@zianet.com wrote:

>You may be right Bill. I am not defending the MFJ tuners, just
>measuring them. And yes the coax connectors also add to the loss.

Another MYTH! The loss of UHF coax connectors at HF is negligible!

If the loss of a UHF connector assembly were even 1%, it would get

substantially HOT when passing 1.5 kW of RF -- 1% is 15 watts. confine 15 watts to the space of the connector assembly and it would be too warm to touch within a few minutes.

But, that doesn't happen. In fact, there's no noticable heating of UHF connector assemblies, even at full legal amatuer power. If there's no heat, there can't be loss!

PS - There have been several tales of poorly designed UHF 90 degree adaptors which used a small spring to connect the center conductor. These guys DO heat appreciably at HF when carrying QRO power. Avoid these poor adaptors, they are lossy. Buy only quality UHF 90 adaptors.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Fri, 19 Jul 2002 10:53:03 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: W2AGN <w2agn@w2agn.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130171] Re: Offence under US code Title 47, Sec 227(b) (1) (C)
Message-ID: <Pine.LNX.4.44.0207191051580.2472-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Please loosen up. Scam is all over the place. I have passed up millions of dollars in the past months. Use your delete key.

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Fri, 19 Jul 2002 12:08:42 -0500
From: Gary Lee <kb9zuv@arrl.net>
To: qrp-l@lehigh.edu
Subject: [130172] interesting product for ft-817 users
Message-ID: <3.0.6.32.20020719120842.007bbd70@mailhost.ind.ameritech.net>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thought you folks that use ft-817s might like this.
I ran across it in the handi-ham newsletter.

<http://www.john.hansen.net/keypad.htm>

I would like to talk with an 817 user, to discuss its operation. While this keypad won't make the display useable, it would seem to allow a blind operator to use the rig with some care.

Hope this is of interest to someone. I would appreciate comments or an email or phone number for someone to discuss the 817.

Gary Lee
Ball State University
765-285-1310

Date: Fri, 19 Jul 2002 13:09:48 -0400
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130173] Re: My final on Conjugate
Message-ID: <3D380F9C.13470.45EEB61@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 19 Jul 2002 at 10:32, Karl F. Larsen wrote:

>
>
> Well the truth is out.

Anybody wanna bet this is the "final?"

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_ / _ / _ / _ / _ / ARCI, NJQRP, ARQrp, GQRP, RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Fri, 19 Jul 2002 10:15:46 -0700
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: <kb9zuv@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130174] Re: interesting product for ft-817 users
Message-ID: <006f01c22f47\$ec970960\$0b02a8c0@trabucoserver>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gary,

Another avenue worth exploring is the FT817 Commander. I would guess that its writer would find it relatively easy to add annunciation for the displays in addition to its normal graphical output. Here's a link to the reviews on eham.net: <http://www.eham.net/reviews/detail/2178>

I have no affiliation with anything discussed here (and don't have an FT817!).

73,

--ian K3IMW/6

Date: Fri, 19 Jul 2002 12:16:36 -0500
From: "George, W5YR" <w5yr@att.net>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130175] Re: My final on Conjugate
Message-ID: <3D384974.DE1EE26F@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

OK, Jim, your turn! <:}

Bless your heart, Karl, you just fulfilled my prediction . . .

All Zack did was to derive the Maximum Power Transfer theorem which we all did in first year EE class. His paper was concerned *only* with matching a

complex load to a source with a complex internal impedance. It said nothing about conjugate matching among a network of networks which is what we have been talking about, not source matching.

Source matching is an altogether different subject and there is no lack of agreement about Zack's results. One thing to ponder though is that if as you say Zack implies that we load our transmitters for Maximum Power Transfer, what is the overall efficiency of the system? Well, the math says that it is at best 50% and I recall a first-year EE lab experiment in which we did just that and got exactly that answer! But we seldom have to suffer with half the input power going up in heat in the rig - why? Because we do not load our amplifiers for Maximum Power Transfer! We load for Maximum Available Power which is altogether a different animal.

Once more for the last time to try to explain anything to you:

1. a transmitter is NOT loaded for Maximum Power Transfer but for Maximum Available Power. When so loaded, all the power that is conveyed to the load system - tuner, feedline, antenna - is radiated except for the usually negligible power dissipated in internal losses. This is true regardless of the resonance or lack of it at the antenna and of the match or lack of it at the antenna with the feedline. The Conservation of Energy applies: all the power less heat losses must get radiated and the only way we get "all the power" that the transmitter can put out - its Maximum Available Power - is to provide conjugate matching among the tuner, feedline and antenna. We can do it anywhere in the system, but with a desktop tuner seems to be the most convenient and is acceptably efficient.

2. the "input impedance" or "output impedance" or "whatever" impedance of a transmitter is not 50 ohms just because that is what we load it with. In general the impedance you are associating with the internal impedance of a source in the simple Thevenin model that Zack used is not known, is not used in the design of the amplifier, and can be measured only with considerable difficulty - see the May/June QEX article by Warren Bruene who designed most of the Collins amateur radio equipment. If it were 50 ohms of real resistance as in Zack's model, then half the d-c input power to the amplifier would go up in heat. Doesn't happen that way, does it?

3. conjugate matching has everything to do with how a transmitter/tuner/feedline/antenna system operates. It explains how and why we design them as we do and how and why they operate as they do. To deny this is akin to looking askance at circuit theory in general . . . you do accept Ohm's Law and Kirchoff's Laws, don't you?

4. fortunately, your views on the subject have nothing to do with its reality and application. It IS and it WORKS, just like the books say. Every professional radio communications engineer understands the subject intimately just as most hams understand Ohm's Law. NIST formally defines

Conjugate Matching. Those tuners, etc. don't get designed by cut and try, guess and test. Nor do the antenna and feed systems of countless broadcast and shortwave commercial and military radio stations. It is all guided by the concepts of Conjugate Matching.

Karl, as I have said before, you are a good man and I enjoy your presence on the list and on the air, and I respect your long experience in amateur radio, but on this topic you are just plain missing the boat and are dead wrong on most counts. My concern is that you may be influencing and misleading others who are entitled to read accurate postings on QRP-L.

I really think that this thread is ready for snipping - anything else that anyone wants to say to me can be sent privately.

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

"Karl F. Larsen" wrote:

>
> Well the truth is out. Mr. Zack Lau, W1VT wrote a paper I got off
> the ARRL web page wherein he said "This conjugate theorem has provoked quite
> a bit of controversy in Amateur circles in recent years. I think it might
> be useful for advanced amateurs to see a mathematical proof. A good proof
> often adds to ones understanding of concepts."

<snip>

> Any idea that the TUNER makes the feed line resonant is false. Any
> idea that the feed-line radiates power is correct. Any idea that the feed line
> transfers power to the antenna is correct, even if the antenna is not
> resonant.

Date: Fri, 19 Jul 2002 13:20:16 -0400
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130176] Mistake
Message-ID: <3D381210.763.46880FE@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

One thing about making a great bloomer like I did with that "Offence" message.

It sure gets the anal retentives out of the woodwork!

--

/\ /\ /\ /\ /\ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_/ _/ _/ _/ _/ ARCI, NJQRP, ARQrp, GQRP, RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Fri, 19 Jul 2002 13:52:44 -0700
From: "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
To: <w5yr@att.net>
Cc: "qrp-l" <qrp-l@lehigh.edu>
Subject: [130177] Re: reproducible conjugate results, PART 99.5 (now even longer)
Message-ID: <001501c22f66\$3b65eb60\$07ea7182@mcmaster.ca>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just can't help m'self from wading into these waters where there
be monsters...

How often do we get a chance to ACTUALLY apply the
principle of conjugate matching? Answer: not all that often.

Nick, and others have pointed out that a non-linear power amp
has poorly defined internal resistance, which isn't conjugately
matched to a 50 ohm load. The amp is simply designed to
work properly when the load it sees is 50 ohms.
So no conjugate match - but that's a case where the amp is
non-linear....

Let's now take a linear case, where a 50 ohm antenna feeds a
small signal into a receiver's input stage. Surely conjugate
matching applies here.

Once again, few input stages of actual receivers are
conjugately matched. In this case, the small-signal amp may
have best noise figure with some other source Z than 50 ohms.
So gain is sacrificed in favour of best signal-to-noise ratio.
Or perhaps the designer is more concerned with dynamic
range than best power transfer, and finds that mis-matching
the input does the trick.

I could come up with more examples, involving amplifier

stability, or voltage breakdown, but here's a factoid of amplifier design:

Gain is easy to come by, and is VERY often traded off for some other desirable amplifier quality.

That said, the big discussion here recently involves getting RF power out to an antenna, with the goal of radiating as much as possible. Applying the principle of conjugate matching (in the case of a tuner) is a good one, whether all the matching is done inside a tuner box, or outside with distributed reactances via transmission lines/stubs etc.

-Glen

Date: Fri, 19 Jul 2002 11:03:02 -0700
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130178] Re: My final on Conjugate
Message-ID: <008201c22f4e\$863b8f40\$0b02a8c0@trabucoserver>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here's another way to think about power transfer versus available power.

Imagine a box containing a battery and a resistor in series. A pair of terminals is connected across the resistor.
The maximum power we can extract from this is when we connect a resistance across the terminals with the same value as the internal resistor. Obviously this dissipates 50% of the power in the internal resistor, and 50% in the external resistor. The current flowing is $V/2R$; the power dissipated in each resistor is $V^2/4R$.

Now imagine that we can reach inside the box and lift out the resistor, making *this* the load. The power that is dissipated in the resistor is now V^2/R

The second of these corresponds to the ideal transmitter situation - in effect, we move the load out of the box (the transmitter final) and make it the radiation resistance of the antenna system.

Hope this helps.

--ian

Date: Fri, 19 Jul 2002 14:15:07 -0400
From: W2AGN <w2agn@w2agn.net>
To: leinwebe@mcmail.cis.mcmaster.ca,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130179] Re: reproducible conjugate results, PART 99.5 (now even longer)
Message-ID: <3D381EEB.27958.49ABFA1@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 19 Jul 2002 at 13:52, Glen Leinweber wrote:

> Just can't help m'self from wading into these waters where there
> be monsters...

Boy it is great having been a Biology major, rather than an EE. I get to cut a hunk of wire. If I want to feed it as an endfed wire, I use a L-match (or the internal tuner in the K1/K2). If I want to use coax, I either try to cut it to 1/2 wavelength, or again, user a tuner, to keep the transmitter happy. If I want to use twinlead, or open wire, I add a little 4:1 balun, and the trusty tuner.

Not being an EE, I don't give a rat's behind if I am conjugate matched, or whatever. If it works, great. If it doesn't, try something else. Never had to differentiate a variable or anything. Highest math used... $\text{antenna length} = 468 / \text{Frequency (Mhz)}$ give or take a smidgeon.

No wonder the EE guys at Lehigh were the ones that always went nuts and tried to fly out the upstairs windows....

--

/ \ / \ / \ / \ / \ John L. Sielke
(W) (2) (A) (G) (N) <http://www.w2agn.net>
_ / _ / _ / _ / _ / ARCI, NJQRP, ARQrp, GQRP, RSGB

Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Fri, 19 Jul 2002 11:29:12 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [130180] Re: reproducible conjugate results
Message-ID: <002801c22f52\$2f09f280\$6f4998d0@bobscomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Looks like this one isn't going to be answered by anyone on this list, to the satisfaction of anyone else.

Also looks like another filter needs to be put in place.

Bob NK7M

Date: Fri, 19 Jul 2002 11:32:44 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [130181] Fw: [azqrp] Forest open Saturday
Message-ID: <003601c22f52\$aceaafbe0\$6f4998d0@bobscomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Bob Hightower" <nk7m@extremezone.com>
To: "Karl F. Larsen" <k5di@zianet.com>
Cc: "azqrp" <azqrp@extremezone.com>
Sent: Friday, July 19, 2002 11:31 AM
Subject: Re: [azqrp] Forest open Saturday

> OK, let's relax a bit. Jamie Johnson is keeping a close watch on it. The
> deal is that the Board of Supervisors, NOT the Forest Service, closed the
> campgrounds. They are meeting on the 23d, and will decide then whether to
> re-open them.

>
> Jamie will let us know what the result is, and it will be posted for all
to
> know.
>
> Bob NK7M
>
> ----- Original Message -----
> From: "Karl F. Larsen" <k5di@zianet.com>
> To: "Bruce Grubbs" <mail@brucegrubbs.com>
> Cc: "azqrp" <azqrp@extremezone.com>
> Sent: Friday, July 19, 2002 10:18 AM
> Subject: Re: [azqrp] Forest open Saturday
>
>
> >
> > Hi Bruce, someone needs to tell the county about the Forest Service
> > action. If I had a phone number to call I would do it.
> >
> > On Fri, 19 Jul 2002, Bruce Grubbs wrote:
> >
> > > Gang,
> > > I don't know what the county is doing with Tuthill, but the
surrounding
> > > Coconino National Forest is opening at 0800 Saturday.
> > >
> > > 73
> > > Bruce
> > > N7CEE
> > > Flagstaff
> > >
> >
> > --
> > Yours Truly,
> >
> > - Karl F. Larsen, (505) 524-3303 -
>

Date: Fri, 19 Jul 2002 14:35:30 EDT
From: ZarubaJr@aol.com
To: qrp-l@lehigh.edu
Subject: [130182] Transistors in the junk box
Message-ID: <190.a092f56.2a69b5f2@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,

What's the group opinion on transistor types to have in the junk box?

I currently have 2N2222A's, MPF102's, 2N3906's, and 2N3904's. Any other types I should consider getting? 2N7000's perhaps?

72,

John AA2BN

Date: Fri, 19 Jul 2002 13:41:42 -0500
From: "George, W5YR" <w5yr@att.net>
To: Glen Leinweber <leinwebe@mcmail.cis.mcmaster.ca>
Cc: qrp-l <qrp-l@lehigh.edu>
Subject: [130183] Re: reproducible conjugate results, PART 99.5 (now even longer)
Message-ID: <3D385D66.6517B771@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Glen, I think that you answered your own question with your last paragraph. Everytime we use or adjust a transmatch or tuner, we are applying the principles of conjugate matching.

Even in the examples you cited, the principles of conjugate matching are at work. They tell us what NOT to do in those particular cases by predicting the consequences of their application where they are not effective.

Conjugate matching is just as fundamental to the design, understanding and operation of electronic circuits and devices as Ohm's Law. Once grasped, it is equally simple to understand and apply. Maybe the problem is with the name! <:}

Just noticed you expression "Applying the principle of conjugate matching (in the case of a tuner) is a good one . . ." which in a way suggests that it is optional. It happens and keeps on happening as long as that tuner is connected to anything whether the operator knows it, understands it, believes in it or realizes that he is in fact using it.

Thanks for your note, Glen. We have no disagreement except in the notion that the application of conjugate matching is a seldom thing. I guess that

my concept that it is still being used when deliberate conjugate matching is not done is the product of a difference in viewpoint between us. Big deal! <:}

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Glen Leinweber wrote:

>
> Just can't help m'self from wading into these waters where there
> be monsters...
> How often do we get a chance to ACTUALLY apply the
> principle of conjugate matching? Answer: not all that often.

<snip>

> That said, the big discussion here recently involves getting
> RF power out to an antenna, with the goal of radiating as
> much as possible. Applying the principle of conjugate
> matching (in the case of a tuner) is a good one, whether
> all the matching is done inside a tuner box, or outside
> with distributed reactances via transmission lines/stubs
> etc.
> -Glen
>

--

Date: Fri, 19 Jul 2002 14:44:42 -0400
From: W2AGN <w2agn@w2agn.net>
To: nk7m@extremezone.com,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130184] Re: reproducible conjugate results
Message-ID: <3D3825DA.2894.4B5D52F@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 19 Jul 2002 at 11:29, Bob Hightower wrote:

> Looks like this one isn't going to be answered by anyone on this list, to
> the satisfaction of anyone else.

>
> Also looks like another filter needs to be put in place.

>
> Bob NK7M

>
>
Ah, but I see all the quotes from scholarly treatises on the web, so I did my OWN web search, using Google.

Lokking for "Technical Bullshit" there were 32,100 hits. Must be a lot of PHDs out there, so

did a serach for "Piled Higher and Deeper" found 21, 900 hits. They must generate a lot of..

"Mathematical crap"..sure enough, 12,100 hits, but not so much..

"Engineering Blather" only 1,910 hits.

Oddly, I didn't see QRP-L referenced in any of the above....yet.

--

/\ /\ /\ /\ /\ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
//_/_/_/ ARCI, NJQRP, ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Fri, 19 Jul 2002 11:06:36 -0800
From: Jim Larsen - AL7FS <AL7FS@arrl.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [130185] Junk box suggestions
Message-ID: <3D38633C.5EEA73AF@ARRL.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Here is a couple of junk box suggestions from the past on QRP-L

Subject: QRP Parts & A Junk Box
Date: Wed, 28 Feb 2001 10:24:59 -0800
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
<text deleted>

I always have 2N2222, 2N3904, 2N3906, J310, 2N7000 on hand. Plus, I have
LM386, LM380, NE5532, 78L05, 78L06, 78L08, 78L09, NE602's (by the way

you
can get them for \$2.75 each from Bob Berlyn at HB Electronics. Go to
the
NorCal web page and click the suppliers link). 72, Doug, KI6DS
=====

Subject: Some part recommendations for your junk box
Date: Wed, 28 Feb 2001 14:22:13 -0500
From: "Brian" <bmmurray@amexol.net>

Some Recommended Parts for your QRP Junkbox
=====

Based on input received from many expert sources, I have compiled a
general
list of what the kit builder, experimenter, or creative genius might
wish to
have in stock and on hand.

Resistors:
About 10-25 each of 100, 1K, 10K, 100K, 1Meg, 4.7, 470, 47K, 47K, 51,
36,
150, 220
mainly in 1/4 watt. Trimmer pots, they always come in handy. The spare
50K-100K variable pot (one turn or otherwise) is also nice to have.

Capacitors:
About 10-25 each of .1 uF Ceramic Disc(For RF Decoupling), and a few .01
uF
and a few .001 uF - I guess NPO's are better (black strip across top of
disc)

Small air variables are getting tough to find, anything 4pF-20pF should
be
grabbed whenever possible. These are great in VFO circuits.

Broadcast Air Variables (365pF and up) are a lot more plentiful.
Suggested
that you stock at least one.

Trimmers, can always use trimmers.

Toroids:
FT37-43, FT50-43, T37-2, T50-2, T37-6, T50-6 (5 of each will get you
by
for a while.)

Transistors/IC's:

25 or so 2N2222's (I prefer metal cans), or 2N3904, 2N3906 or 2N3866.
Get 10-15 MPF102's, some 1-2 watt RF Transistors - 2N3866, 2SC799,
2N3553, 2N5320 (Pick out 2 types and buy 2 each - Most liked the
2N3866,
2SC799) Pick up a few J309, J310, and 2N3819 FETs.

Add to that some common linear ICs, LM380 for audio, NE602 or equivalent
for
mixers, some 741 op amps, some 780X and 78L0X voltage regulators, and
some
1N400X family diodes.

For winding coils, you need # 24, # 26, # 28 AWG enamel magnet wire as a
bare minimum. You can buy 1/4 pound spools from stores like Radio shack.

For power supplies you can always use a few LM317T adjustable voltage
regulators.

See <http://www.qrp.pops.net/workshop.htm> for more ideas. KB9BVN/QRP
=====

From: "Lau, Zack, W1VT" <zlau@arrl.org>

What about electrolytics?--Digi-Key will sell you a hundred 10 or 22 uF
35
volt caps for \$8.99--Zack W1VT

=====

From: "Steven Weber" <kd1jv@moose.ncia.net>

> About 10-25 each of .1 uF Ceramic Disc(For RF Decoupling), and a few .01 uF
> and a few .001 uF - I guess NPO's are better (black strip across top of
> disc)
>

.1 ufd's are used like popcorn. Even a simple circuit can eat them up
quick. Get at least 100. In fact, while your at it, get 100 of the
.01's too. At about \$8.00 per 100, it's not a big expense.
72,Steve, KD1JV

=====

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
ex-WA0LPK AK-QRP#003 SOC#003 10-X-#12094
mailto:al7fs@arrl.net - <http://www.qsl.net/al7fs/>

--

Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
ex-WA0LPK AK-QRP#003 SOC#003 10-X-#12094
mailto:al7fs@arrl.net - <http://www.qsl.net/al7fs/>

Date: Fri, 19 Jul 2002 15:10:46 -0400
From: "Mullin, Edward J." <mulline@tycoelectronics.com>
To: "'QRP'" <qrp-1@lehigh.edu>
Subject: [130186] RE: Transistors in the junk box
Message-ID: <F1C60F6146F4DF4B902254ECAC17271D6A04F7@us358mx00>
MIME-Version: 1.0
Content-Type: text/plain

Hey, is there a web site where I can get data sheets for these, and other 'common' types. I've done a couple of searches and usually have to wade through a morass of pages to find even one.

> -----Original Message-----

> From: ZarubaJr@aol.com [SMTP:ZarubaJr@aol.com]

> Sent: Friday, July 19, 2002 2:36 PM

> To: Low Power Amateur Radio Discussion

> Subject: Transistors in the junk box

>

> Hi Gang,

>

> What's the group opinion on transistor types to have in the junk box?

>

> I currently have 2N2222A's, MPF102's, 2N3906's, and 2N3904's. Any other
> types

> I should consider getting? 2N7000's perhaps?

>

> 72,

>

> John AA2BN

Date: Fri, 19 Jul 2002 12:21:17 -0700
From: Mighty Mik <mightymik2@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [130187] Re: Transistors in the junk box
Message-ID: <5.1.0.14.0.20020719122006.00b62818@mail.attbi.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:35 PM 7/19/2002 -0400, you wrote:

>Hi Gang,

>

>What's the group opinion on transistor types to have in the junk box?

>

>I currently have 2N2222A's, MPF102's, 2N3906's, and 2N3904's. Any other types

>I should consider getting? 2N7000's perhaps?

PN5179's , maybe even 2N5179's .

>72,

>

>John AA2BN

Date: Fri, 19 Jul 2002 15:12:47 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [130188] Re: reproducible conjugate results
Message-ID: <5.1.0.14.1.20020719145932.00a71ec0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:44 PM 7/19/2002 -0400, you wrote:

>Lokking for "Technical Bullshit" there were 32,100 hits. Must be a lot of

>PHDs out there, so

>

>did a serach for "Piled Higher and Deeper" found 21, 900 hits. They must

>generate a lot of..

>"Mathematical crap"..sure enough, 12,100 hits, but not so much..

>"Engineering Blather" only 1,910 hits.

John,

That's because you took a sidestep in your search. Mathematics is a "pure" science unconcerned with the real world. But then you moved across to Engineering, which is very much concerned with a real world. (Maybe not -this- world, but still...) Had you searched for "physical blather" you'd have scored 4,540 hits.

>Oddly, I didn't see QRP-L referenced in any of the above....yet.

"There comes a time in every design project when it is necessary to shoot the engineer." I suspect most of us have reached the point where we've said "to heck with the theory - just build it and see if it works." The PhDs may look down their bespectacled noses at some of us, but frankly I don't care if I get published in Nature, Scientific American, QST, Embedded Systems Programming, QRP Quarterly, or TV Guide.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Fri, 19 Jul 2002 15:19:33 -0400
From: Tim O'Rourke <TO'Rourke@kaiserft.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@lehigh.edu>
Subject: [130189] WTB FT-7
Message-ID: <0514B74864ACD511934400508BBB5E3415F7E8@EMAIL1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

I am looking for a very clean FT-7. Please e-mail off list if u know of one to KG4CHX@ARRL.Net
72 Tim O'Rourke

Date: Fri, 19 Jul 2002 15:18:20 -0400 (EDT)
From: Philip L Carter <pcarter@gcfn.org>
To: W2AGN <w2agn@w2agn.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130190] Re: Misteaks
Message-ID: <Pine.3.07.10207191519.A26347-91000000@acme>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm suprised that someone didn't send it back to you with a warning that

unwanted spam is a violation of Title 47 sect....

he he

Kinda like sending *.* to the lineprinter...
I've never done that...aaahhh

Phil

NRE/COLE Test Center OH-3
pcarter@gcfn.org or wd8qwr@arrl.net
Philip L. Carter, WD8QWR
wd8qwr@w8cqk.#cmh.oh.usa.na

Date: Fri, 19 Jul 2002 15:44:00 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [130191] RE: Transistors in the junk box
Message-ID: <5.1.0.14.1.20020719154117.00a705a0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Edward,

I usually go to www.digikey.com and use their Search system. If they carry it, it'll usually lead to a page with a link to a data sheet, their catalog page for the part, the manufacturer's Web page, and other useful stuff.

Dave

At 03:10 PM 7/19/2002 -0400, you wrote:

> Hey, is there a web site where I can get data sheets for these, and other
> 'common' types. I've done a couple of searches and usually have to wade
> through a morass of pages to find even one.

>

>

>

> > -----Original Message-----

> > From: ZarubaJr@aol.com [SMTP:ZarubaJr@aol.com]

> > Sent: Friday, July 19, 2002 2:36 PM

> > To: Low Power Amateur Radio Discussion

> > Subject: Transistors in the junk box

> >

> > Hi Gang,

> >
> > What's the group opinion on transistor types to have in the junk box?
> >
> > I currently have 2N2222A's, MPF102's, 2N3906's, and 2N3904's. Any other
> > types
> > I should consider getting? 2N7000's perhaps?
> >
> > 72,
> >
> > John AA2BN

"You can fool some of the people all of the time. That's enough to make a
living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Fri, 19 Jul 2002 15:48:44 -0400
From: "Steve Baker" <k8pz@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130192] FS - PSK Transceivers
Message-ID: <00b301c22f5d\$4b964b00\$0100a8c0@mshome.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

FS- Small Wonder Labs PSK-20 (20M PSK31) Transceiver installed in SWL black
anodised case. \$100 shipped conus. NJQRP Warbler 80M PSK31 Transceiver
installed in LMB minibox. \$50 shipped conus. Both work great, include
manuals but no cables. Pictures on request. Note: Works best with a
conjugate matching device between transceiver and your less than optimal
radiation system. ;)

Steve ..

Date: Fri, 19 Jul 2002 15:55:54 -0400
From: "Charles Mabbott" <aa8vs@msn.com>
To: femens@hiwaay.net, qrp-l@lehigh.edu
Subject: [130193] Re: Regulations

Message-ID: <F17kb9pPFR6sKBEr8pk00018aad@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Yep, correct on both counts.....

73
Chuck AA8VS

>From: "Frank Emens" <femens@hiwaay.net>
>Reply-To: femens@hiwaay.net
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Regulations
>Date: Fri, 19 Jul 2002 08:19:37 -0500
>
>I don't have a current copy of the FCC regs concerning the Amateur Radio
>Service. I
>have a question that I'm sure can be answered here. Do the regs still say
>that we
>should use no more power than that necessary to accomplish the desired
>communication?
>
>If it is still there, it has to be the most often violated rule in the
>book.
>--
>Frank Emens
>femens@hiwaay.net
>

"If your not part of the solution,
there is good money to be made
prolonging the problem."

<http://68.43.100.7:81/aa8vs>

Chat with friends online, try MSN Messenger: <http://messenger.msn.com>

Date: Fri, 19 Jul 2002 16:04:54 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [130194] Re: Transistors in the junk box
Message-ID: <002a01c22f5f\$8e6afcd0\$39d81b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here is a web page for a bunch of surplus stuff I'm peddling...

<http://www.kitsandparts.com/specials.html>

Just got some Encoder Controls in too.

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W
SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26
FP#-1 <http://home.cinci.rr.com/w8diz> & <http://kitsandparts.com>

----- Original Message -----

From: <ZarubaJr@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, July 19, 2002 2:35 PM
Subject: Transistors in the junk box

Hi Gang,

What's the group opinion on transistor types to have in the junk box?

I currently have 2N2222A's, MPF102's, 2N3906's, and 2N3904's. Any other types

I should consider getting? 2N7000's perhaps?

72,

John AA2BN

Date: Fri, 19 Jul 2002 16:31:40 -0400
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [130195] var.caps
Message-ID: <014001c22f63\$4a067480\$d2af2341@tampabay.rr.com>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have 3 variable caps, 5-40 pf. for sale. these caps have ball bearings on both ends, ceramic body with a steel mounting plate 1/8 in. thick. they are very sturdy looking, silver plated plates. I'm asking 5.00 each, plus shipping (which shouldn't be very much) The only catch to these is the shaft is only about 1/8 in. but I used a piece of copper tubing on one of them and it can take a 1/4 in. knob,!!

I also have an oscillator unit that came from an older radio , but I don't know which one. !! the tuning range would appear to be in the 5-7 mhz. range. the osc. board is mounted on a heavy steel gear train which is a ten turn unit. this item weighs about 2-2.5 lbs.

I'd like to have 10.00 plus shipping for it .

if interested please e-mail me off list. Thanks !!

carl / kz5ca

Date: Fri, 19 Jul 2002 14:36:16 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: David Hinerman <WD8CIV@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [130196] Re: reproducible conjugate results
Message-ID: <Pine.LNX.4.44.0207191430320.3353-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi David, I agree in whole. Zack Lau is in Mathematics and worried that his results contained $(R + R_L)$ and if $R_L = -R$ the result will blow up. Well R is the source resistance and R_L is the load resistance and we all know they are always a positive number...:-)

On Fri, 19 Jul 2002, David Hinerman wrote:

> At 02:44 PM 7/19/2002 -0400, you wrote:
> > Looking for "Technical Bullshit" there were 32,100 hits. Must be a lot of
> > PHDs out there, so
> >
> > did a search for "Piled Higher and Deeper" found 21,900 hits. They must
> > generate a lot of..
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> > "Engineering Blather" only 1,910 hits.

>
> John,
>
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> have scored 4,540 hits.
>
> >Oddly, I didn't see QRP-L referenced in any of the above....yet.
>
> "There comes a time in every design project when it is necessary to shoot
> the engineer." I suspect most of us have reached the point where we've said
> "to heck with the theory - just build it and see if it works." The PhDs may
> look down their bespectacled noses at some of us, but frankly I don't care
> if I get published in Nature, Scientific American, QST, Embedded Systems
> Programming, QRP Quarterly, or TV Guide.
>
> Dave
>
>
> -----
> "You can fool some of the people all of the time. That's enough to make a
> living." - Lance Burton
> -----
> Dave Hinerman
> WD8CIV@worldnet.att.net
>
>

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Fri, 19 Jul 2002 16:33:07 -0400
From: "Steve Baker" <k8pz@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130197] Re: FS - PSK Transceivers
Message-ID: <008101c22f63\$7ecc9640\$0100a8c0@mshome.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Both transceivers sold! Took all of 9 minutes.....

Steve ..

----- Original Message -----

From: "Steve Baker" <k8pz@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, July 19, 2002 3:48 PM

Subject: FS - PSK Transceivers

> FS- Small Wonder Labs PSK-20 (20M PSK31) Transceiver installed in SWL
black
> anodised case. \$100 shipped conus. NJQRP Warbler 80M PSK31 Transceiver
> installed in LMB minibox. \$50 shipped conus. Both work great, include
> manuals but no cables. Pictures on request. Note: Works best with a
> conjugate matching device between transceiver and your less than optimal
> radiation system. ;)
>
> Steve ..
>

Date: Fri, 19 Jul 2002 13:47:18 -0700

From: "Bob Tellefsen" <n6wg@earthlink.net>

To: <qrp-1@lehigh.edu>

Subject: [130198] Re: Transistors in the junk box

Message-ID: <MABBJOEABOILMKCJCLFCIEDPDHAA.n6wg@earthlink.net>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

John

I'd say it depends on what you might expect to build.

If you like to build receiver preamps, I recommend a few
2N5109. These make excellent preamps.

73, Bob N6WG

Date: Fri, 19 Jul 2002 16:49:10 EDT

From: n5ib@juno.com

To: qrp-1@lehigh.edu, eleccraft@mailman.qth.net

Subject: [130199] USS Kidd on the air

Message-ID: <20020719.143752.4655.2.n5ib@juno.com>

Don't forget the little "Tin Can Hunts" hunts this weekend. USS Kidd, DD-661 will be on fom Baton Rouge LA as W5KID

times: Friday night 2100-2300 CDT (0200-0400 Saturday, UTC)
Saturday night 2200-2400 CDT (0300-0500 Sunday UTC)

frequencies: upwards from 7040 and 14060, check both bands, will use the one the main station is not using.

exchange: send your name, SPC, and power

QSL info is on QRZ.COM at the W5KID callsign lookup

The Kidd will be on all weekend long mostly on SSB in the Museum Ships event, but I've reserved the slots above for CW QRP.

72
Jim N5IB

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<http://dl.www.juno.com/get/web/>.

Date: Fri, 19 Jul 2002 13:53:58 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [130200] Re: N3BJ FOX Audio Clip as recorded in Burbank,CA
Message-ID: <20020719205358.49262.qmail@web10009.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Yow! After listening so long and so hard to hear those little beeps, it's amazing to hear them so strongly. Spooky, I calls it!

=====
Lloyd, K3ESE
K1 # 00379 - ARRL
ARS #1301 - FISTS #8774
FPqrp #476 - QRParci #11147
QRP-L #2415 - SOC #530

HGT #6'1" - WGT #190
BT #B-

Do You Yahoo!?
Sign up for SBC Yahoo! Dial - First Month Free
<http://sbc.yahoo.com>

Date: Fri, 19 Jul 2002 13:58:05 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [130201] Re: Stacked Toroids -- 50 Turns 2 Sizes
Message-ID: <MABBJOEABOILMKCJCLFCOEDPDHAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Chuck

I just finished checking this idea with some ferrite toroids.
They are a non-standard size, possibly from a special run for some mfr.
These cores are claimed to be type 43 ferrite, OD 1.22", ID .72", HT .62"

I wound one core with 5 turns of #24 telco wire (pulled from an old cable of 50 pairs), with the turns spaced a wire diameter. My AADE LC II/B says 28.9uH.

Then I rewound two units with the same five spaced turns and got 81.5uH.

As someone else observed, a small number of turns doesn't scale up very linearly.

Then I wound 19 spaced turns (actually aimed for 20 but the wire was a tad too short) on one core and measured 492uH. Unwound that one and stacked two cores, again with 19 spaced turns. This time I measured 848uH. In the neighborhood of a 1:2 relationship now.

So the observation that inductance scales up when a fairly large number of turns are used seems to hold. Perhaps even more turns might yield a ratio very close to 1:2.

My thanks to Dave Hinerman for raising an interesting question that could actually be checked out right on the bench.

73, Bob N6WG

Date: Fri, 19 Jul 2002 13:59:16 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: qrp-1@lehigh.edu
Subject: [130202] Re: FOX are we being legal here ?
Message-ID: <20020719205916.92397.qmail@web10006.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Rod,
Us piggies ain't rootin' around for no "truffle fox",
we's diggin up THE TRUFFLE!

...and, like everyone (almost) else in the NE, I
rooted up that ol' truffle and bagged Al, but the most
assiduous lissenin' yielded only a few late ESP
glimpses of the very tip of Alan's bushy tail.

=====
Lloyd, K3ESE
K1 # 00379 - ARRL
ARS #1301 - FISTS #8774
FPqrp #476 - QRParci #11147
QRP-L #2415 - SOC #530
HGT #6'1" - WGT #190
BT #B-

Do You Yahoo!?
Yahoo! Autos - Get free new car price quotes
<http://autos.yahoo.com>

Date: Fri, 19 Jul 2002 15:08:46 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Gary Lee <kb9zuv@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [130203] Re: interesting product for ft-817 users
Message-ID: <Pine.LNX.4.44.0207191502260.3353-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Gary, I went to the web page and since they had very little info on the page other than it cost 95 dollars. I down load the instruction book that is very small and also not very complete.

It never says you must buy a cable that runs from the keypad to the FT-817 but you must. This cable costs about \$30.00 and is called the CAT Cable.

I think you might be interested in the software Simon Brown has written for windows that brings all the features of the FT-817 onto your computer screen. It works very well and I use it often. If your sight is good enough to read this you can read the screen of the software.

If interested I will send you the way to get this free software.

On Fri, 19 Jul 2002, Gary Lee wrote:

> Thought you folks that use ft-817s might like this.
> I ran across it in the handi-ham newsletter.
>
> <http://www.john.hansen.net/keypad.htm>
>
> I would like to talk with an 817 user, to discuss its operation. While
> this keypad won't make the display useable, it would seem to allow a blind
> operator to use the rig with some care.
>
> Hope this is of interest to someone. I would appreciate comments or an
> email or phone number for someone to discuss the 817.
>
> Gary Lee
> Ball State University
> 765-285-1310
>
>

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Fri, 19 Jul 2002 17:12:37 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [130204] Re: N3BJ FOX Audio Clip as recorded in Burbank,CA
Message-ID: <070301c22f69\$036334e0\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Trevor Jacobs" <kg6cyn@earthlink.net>
Subject: N3BJ FOX Audio Clip as recorded in Burbank,CA

> Alan's signal was so strong near the end of the hunt tonight

Amazing ... I could hear plenty of hounds but nary a peep from Virginia. On the other hand, our Rocky Mountain Fox was substantially louder here in 8 land than your recording of N3BJ. The propagation goddess is a strange one.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Fri, 19 Jul 2002 17:19:46 -0400 (EDT)
From: Thom LaCosta <baltimoremd@baltimoremd.com>
To: "Karl F. Larsen" <k5di@zianet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130205] Re: Offence under US code Title 47, Sec 227(b) (1) (C)
Message-ID: <20020719171830.B81547-1000000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 19 Jul 2002, Karl F. Larsen wrote:

>
> Please loosen up. Scam is all over the place. I have passed up
> millions of dollars in the past months.

I just hope you contributed at least 10 per cent of what you passed up to a worthy charity.

73,
Thom

baltimoremd@baltimoremd.com
<http://www.baltimoremd.com/>

Thom LaCosta K3HRN Webmaster
Baltimore's Home Page

<http://www.baltimorehon.com/>
<http://www.zerobeat.net>

Home of the Baltimore Lexicon
Home of The QRP Web Ring
and Drake Mail List Pages

Date: Fri, 19 Jul 2002 16:36:53 -0500
From: "Brian" <brian@iquest.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130206] Re: Junk box suggestions
Message-ID: <003c01c22f6c\$66f5bf70\$6b382bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Good info Jim, for sure.

I would add this to any junkbox:

"The Electronic Data Book for Homebrewers and QRPers"
by Paul Harden NA5N

I bought my version at FIDM in 2001 from Rev Dobbs, but I've seen them
at a couple of hamfests too.

I'm not sure if you can buy this directly from Paul or if it is even
still in print. Paul? Can you hep us out?

Since I'm basically ignorant of all this radio electronical stuff,
this book has been an ENORMOUS help to me. I have it on my bench at
all times.

Another thing I do is keep a three hole punch and ring binder handy.
Anytime I go to the trouble to look up a PDF for a part spec sheet, I
print it and put it in the binder. In a couple of years I have
amassed a nice parts binder to go with Paul's excellent tome.

Great toroid deals can be found at www.kitsandparts.com , and I think
he had SA612's for 2 bucks each the last time I looked. W8DIZ is a
good guy to deal with.

73

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL

HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57

=====

----- Original Message -----

From: "Jim Larsen - AL7FS" <AL7FS@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, July 19, 2002 2:06 PM
Subject: Junk box suggestions

> Here is a couple of junk box suggestions from the past on QRP-L
>
> Subject: QRP Parts & A Junk Box
> Date: Wed, 28 Feb 2001 10:24:59 -0800
> From: "Doug Hendricks" <ki6ds@dph.dpol.net>
> <text deleted>
> I always have 2N2222, 2N3904, 2N3906, J310, 2N7000 on hand. Plus, I
> have
> LM386, LM380, NE5532, 78L05, 78L06, 78L08, 78L09, NE602's (by the
way
> you
> can get them for \$2.75 each from Bob Berlyn at HB Electronics. Go
to
> the
> NorCal web page and click the suppliers link). 72, Doug, KI6DS
> =====
> Some Recommended Parts for your QRP Junkbox
> =====
>
> Based on input received from many expert sources, I have compiled a
> general
> list of what the kit builder, experimenter, or creative genius might
> wish to
> have in stock and on hand.
>
> Resistors:
> About 10-25 each of 100, 1K, 10K, 100K, 1Meg, 4.7, 470, 47K, 47K,
51,
> 36,
> 150, 220
> mainly in 1/4 watt. Trimmer pots, they always come in handy. The
spare
> 50K-100K variable pot (one turn or otherwise) is also nice to have.
>
> Capacitors:
> About 10-25 each of .1 uF Ceramic Disc(For RF Decoupling), and a few

.01
> uF
> and a few .001 uF - I guess NPO's are better (black strip across top
of
> disc)
>
> Small air variables are getting tough to find, anything 4pF-20pF
should
> be
> grabbed whenever possible. These are great in VFO circuits.
>
> Broadcast Air Variables (365pF and up) are a lot more plentiful.
> Suggested
> that you stock at least one.
>
> Trimmers, can always use trimmers.
>
> Toroids:
> FT37-43, FT50-43, T37-2, T50-2, T37-6, T50-6 (5 of each will get
you
> by
> for a while.)
>
> Transistors/IC's:
> 25 or so 2N2222's (I prefer metal cans), or 2N3904, 2N3906 or
2N3866.
> Get 10-15 MPF102's, some 1-2 watt RF Transistors - 2N3866, 2SC799,
> 2N3553, 2N5320 (Pick out 2 types and buy 2 each - Most liked the
> 2N3866,
> 2SC799) Pick up a few J309, J310, and 2N3819 FETs.
>
> Add to that some common linear ICs, LM380 for audio, NE602 or
equivalent
> for
> mixers, some 741 op amps, some 780X and 78L0X voltage regulators,
and
> some
> 1N400X family diodes.
>
> For winding coils, you need # 24, # 26, # 28 AWG enamel magnet wire
as a
> bare minimum. You can buy 1/4 pound spools from stores like Radio
shack.
>
> For power supplies you can always use a few LM317T adjustable
voltage
> regulators.
>

> See <http://www.qrp.pops.net/workshop.htm> for more ideas. KB9BVN/QRP
> =====
>
> From: "Lau, Zack, W1VT" <z1au@arrl.org>
>
> What about electrolytics?--Digi-Key will sell you a hundred 10 or 22
uF
> 35
> volt caps for \$8.99--Zack W1VT
>
> =====
>
> From: "Steven Weber" <kd1jv@moose.ncia.net>
>
> > About 10-25 each of .1 uF Ceramic Disc(For RF Decoupling), and a
few .01 uF
> > and a few .001 uF - I guess NPO's are better (black strip across
top of
> > disc)
> >
>
> .1 ufd's are used like popcorn. Even a simple circuit can eat them
up
> quick. Get at least 100. In fact, while your at it, get 100 of the
> .01's too. At about \$8.00 per 100, it's not a big expense.
> 72,Steve, KD1JV
> =====
>
> 73, Jim
> --
> Jim Larsen, AL7FS, Anchorage, Alaska
> (BP51cc) - 61.101 North, 149.824 West
> ex-WA0LPK AK-QRP#003 SOC#003 10-X-#12094
> <mailto:al7fs@arrl.net> - <http://www.qsl.net/al7fs/>
>
>
> --
> Jim Larsen, AL7FS, Anchorage, Alaska
> (BP51cc) - 61.101 North, 149.824 West
> ex-WA0LPK AK-QRP#003 SOC#003 10-X-#12094
> <mailto:al7fs@arrl.net> - <http://www.qsl.net/al7fs/>
>
>
>

Date: Fri, 19 Jul 2002 21:35:32 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: ZarubaJr@aol.com, qrp-1@lehigh.edu
Subject: [130207] Re: Transistors in the junk box
Message-ID: <F42BurfPnaJHQj1qkHb0001b32c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: ZarubaJr@aol.com
>Reply-To: ZarubaJr@aol.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Transistors in the junk box
>Date: Fri, 19 Jul 2002 14:35:30 EDT
>
>Hi Gang,
>
>What's the group opinion on transistor types to have in the junk box?
>
>I currently have 2N2222A's, MPF102's, 2N3906's, and 2N3904's. Any other
>types
>I should consider getting? 2N7000's perhaps?
>
>72,
>
>John AA2BN

2N7000s aren't used very much in radio circuits.

I'd add some 2N5179s for broadband amps.

Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

MSN Photos is the easiest way to share and print your photos:
<http://photos.msn.com/support/worldwide.aspx>

Date: Fri, 19 Jul 2002 17:39:23 -0400
From: W2AGN <w2agn@w2agn.net>
To: baltimoremd@baltimoremd.com,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130208] Re: Offence under US code Title 47, Sec 227(b) (1) (C)
Message-ID: <3D384ECB.16025.555CF26@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 19 Jul 2002 at 17:19, Thom LaCosta wrote:

> On Fri, 19 Jul 2002, Karl F. Larsen wrote:
>
> >
> > Please loosen up. Scam is all over the place. I have passed up
> > millions of dollars in the past months.
>
> I just hope you contributed at least 10 per cent of what you passed up to
> a worthy charity.
>
> 73,
> Thom

Hey, things gotta be looking up. This is the same guy who 6 months ago couldn't afford an ARRL membership (or ARCI membership, I forget which) because his "stock took a downturn." Now he's passing up millions, with the stock market in the dumper? Hey, the secret must be in the conjugate match....

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_ / _ / _ / _ / _ / ARCI, NJQRP, ARQrp, GQRP, RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Fri, 19 Jul 2002 17:43:32 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [130209] Re: My final on Conjugate
Message-ID: <20020719214504.0CZ014378.imf12bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/19/02 12:32 PM, Karl F. Larsen at k5di@zianet.com wrote:

>
> Mr. Lau goes on to say after the solution "Thus, we have proved that
> if the source impedance is $R + jX$, the load impedance that results in
> maximum power transfer is $R - jX$. Thus the optimum load impedance is the
> complex conjugate of the source impedance."

Except it is usually the other way around -- we have a complex load impedance of $R - jX$. We want to feed a transmitter designed for a 50 ohm load. So, we use a device called a Transmatch or an "antenna tuner" to transform that 50 ohm impedance to $R + jX$.

The Transmatch supplies the conjugate impedance for our antenna system. By doing so, it establishes the conjugate condition, and thus resonance of the entire antenna system.

> In summary, I say with complete proof that conjugate matching is of
> no interest to any Ham using a tuner between the radio and the feed line.

You can say what you like, Karl, but you're wrong.

> If
> your trying to feed a balanced feed line direct from your radio then your
> interested in this theorem.

It doesn't matter if the feedline is balanced or not. The key thing is --
WHAT IS THE IMPEDANCE AT THE SHACK END OF THE FEEDLINE?

> The idea that you can use a open wire feed line with very low loss to
> feed a non-resonant antenna is real and is in common use today by many Hams
> including me. There is nothing in this idea that has anything to do with
> conjugate matching.

WRONG!

> I and everyone in this discussion so far is using a
> radio with a $50 + jx$ input impedance.

No, the radio needs a $50 + j0$ impedance.

> The TUNER provides the radio with a 50
> - jx load when tuned up properly.

The tuner provides the radio with a $50 - j0$ impedance.

But, HOW does it do that? How does the tuner create that $50 - j0$ impedance? It doesn't do it through loss, as a dummy load would, since the tuner is, for the sake of the example, lossless. So, the power

entering the tuner goes somewhere.

Where does that power go, Karl? And how does it get there?

(Hint: You are concentrating on the WRONG side of the transmatch)

> Any idea that the TUNER makes the feed line resonant is false.

Karl: Define resonance.

My definition of resonance is a condition where the impedance is all resistive -- there is no reactive component.

Maxwell proved that the conjugate match is a resonant condition -- all of the reactive components cancel, leaving only pure resistance. That meets my definition above.

If you have a DIFFERENT definition of resonance, please present it before spouting off any more falsehoods.

>Any idea that the feed-line radiates power is correct.

Huh? Who said anything about a feedline radiating power? Properly designed and installed feedlines should NOT radiate at all.

>Any idea that the feed line
>transfers power to the antenna is correct, even if the antenna is not
>resonant.

With a conjugate match, the feedline / antenna system ****IS**** resonant, and the feedline should not do any radiating -- only the antenna.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Fri, 19 Jul 2002 18:58:29 -0400
From: Jimmy Lee <jrllaudio@bellsouth.net>
To: nk7m@extremezone.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [130210] Re: reproducible conjugate results
Message-ID: <3D389995.D056B549@bellsouth.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

yes, AE4DT

Bob Hightower wrote:

> Looks like this one isn't going to be answered by anyone on this list, to
> the satisfaction of anyone else.
>
> Also looks like another filter needs to be put in place.
>
> Bob NK7M

End of QRP-L Digest 2621

